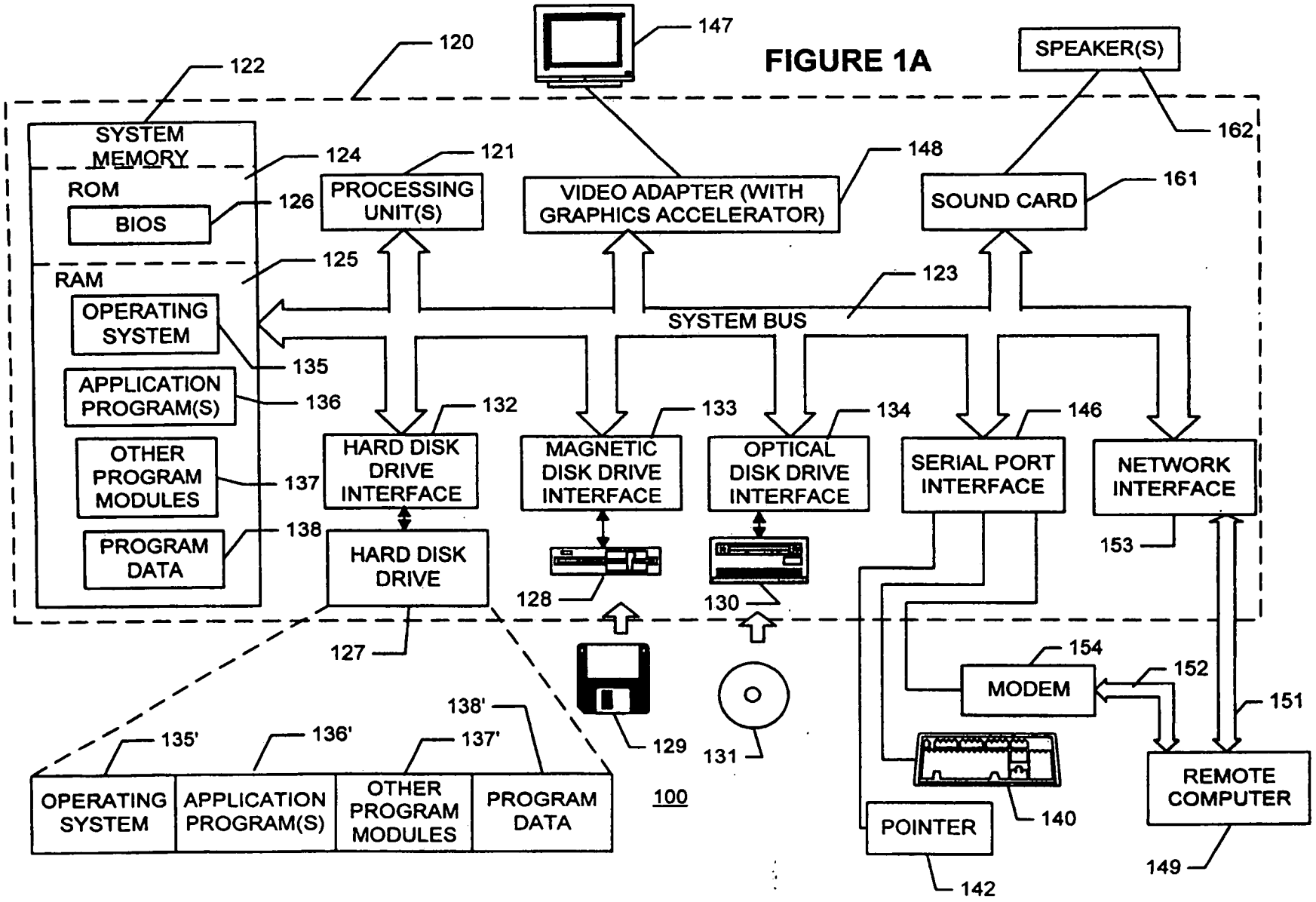
PATENT & TRADEMARK OFFICE JUN 22 2006 OIPE IAP69



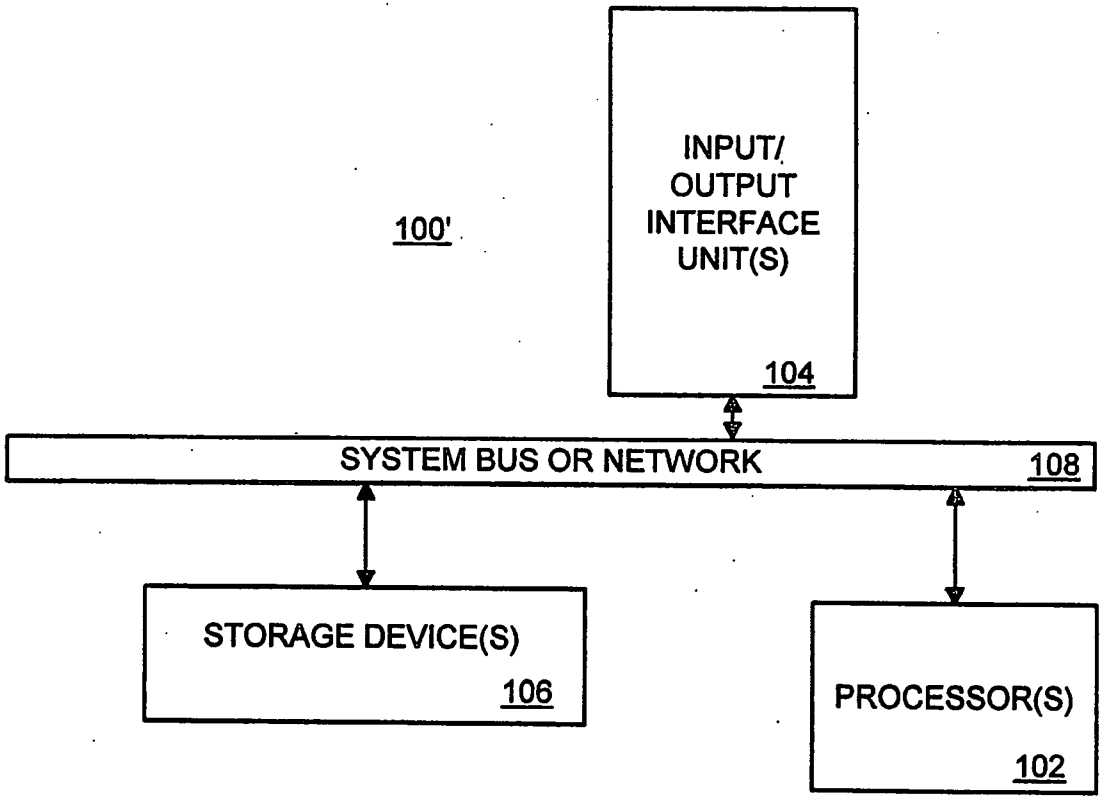

100'
INPUT/
OUTPUT
INTERFACE
UNIT(S)
104
SYSTEM BUS OR NETWORK
108
STORAGE DEVICE(S)
106
PROCESSOR(S)
102

FIGURE 1B

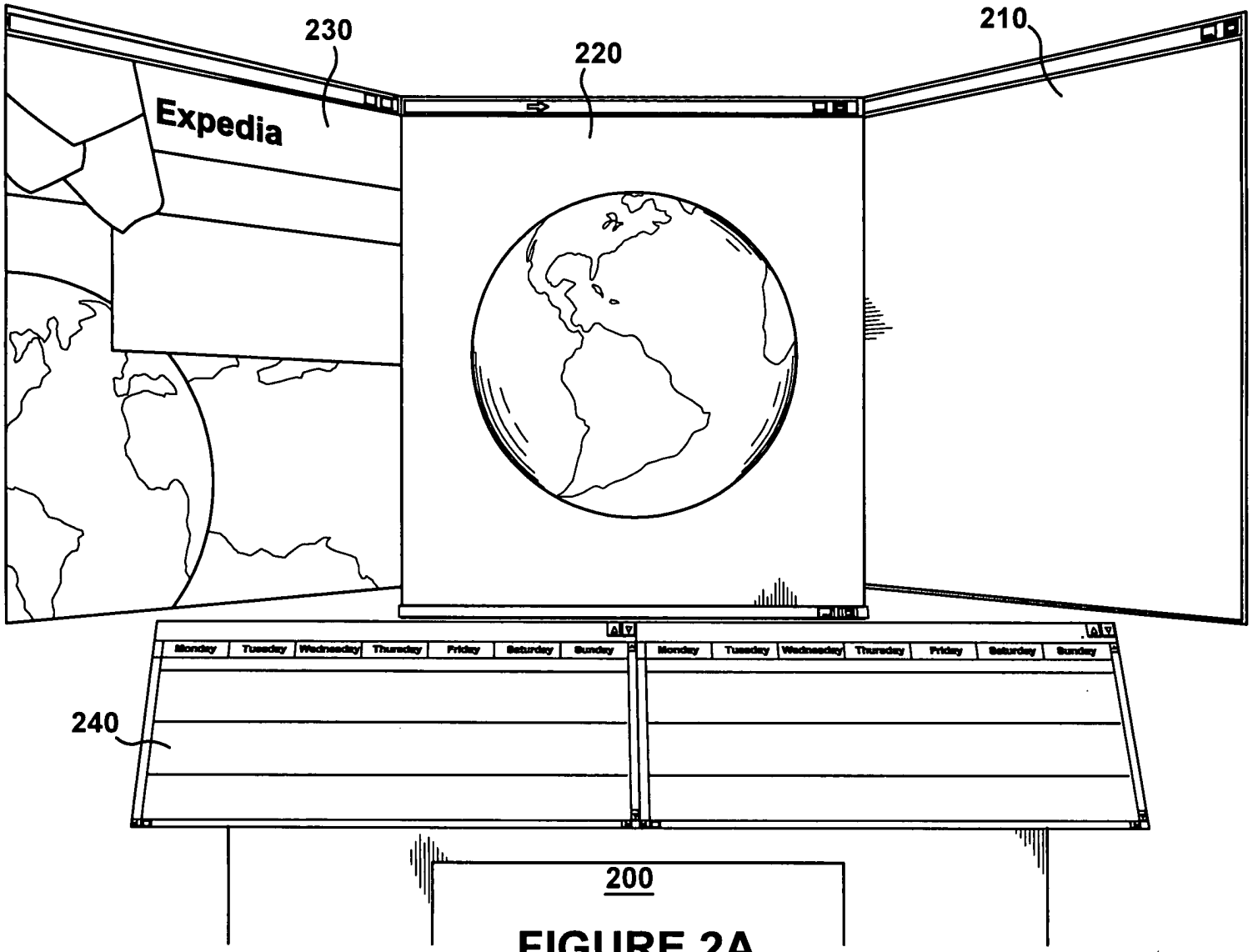

230
220
210
Expedia
240
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
200

FIGURE 2A

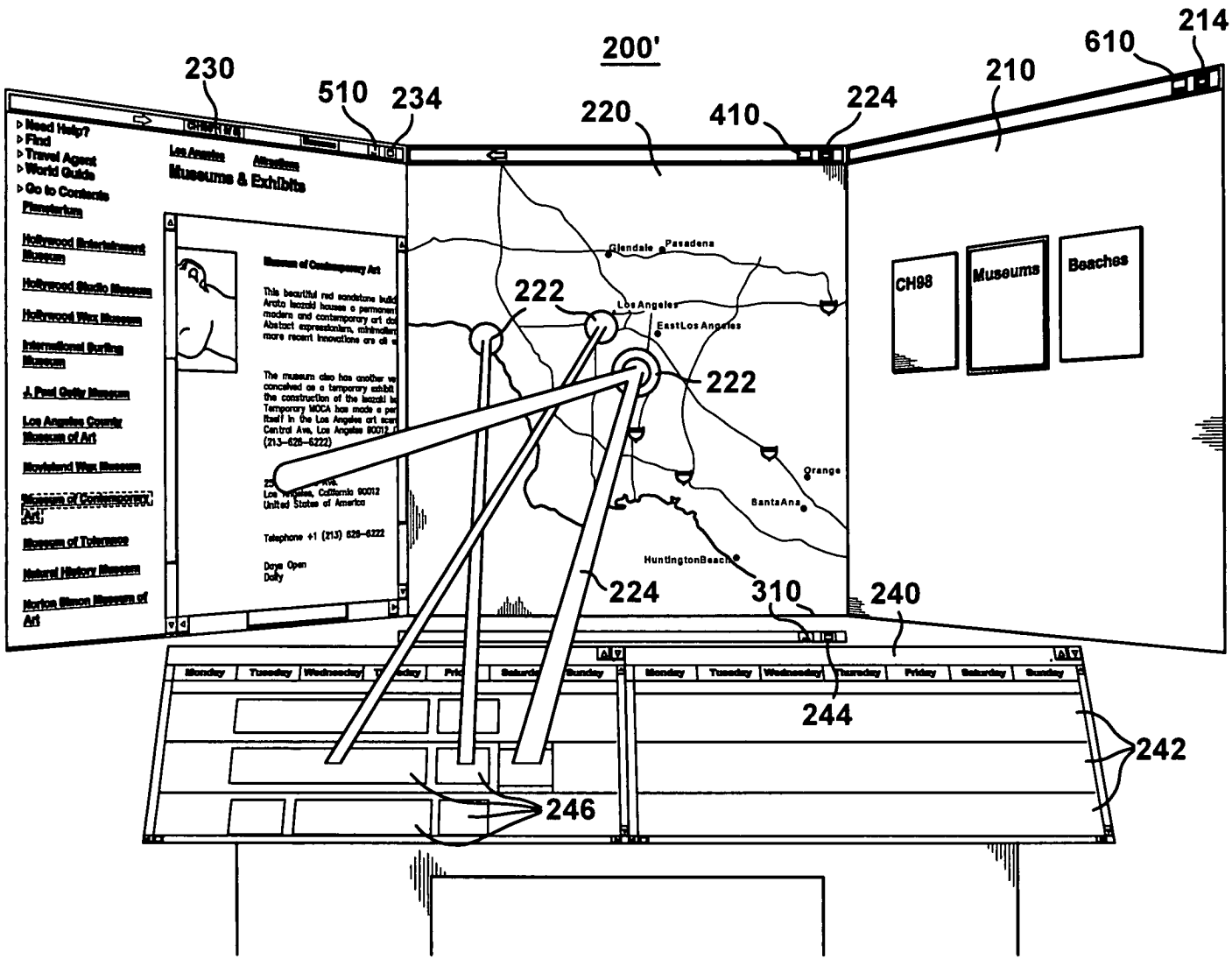

200'
230
510
234
220
410
224
210
610
214
222
222
224
310
240
244
242
246
Museums & Exhibits
Museum of Contemporary Art
Glendale
Pasadena
Los Angeles
East Los Angeles
Orange
Santa Ana
Huntington Beach
CH98
Museums
Beaches

FIGURE 2B

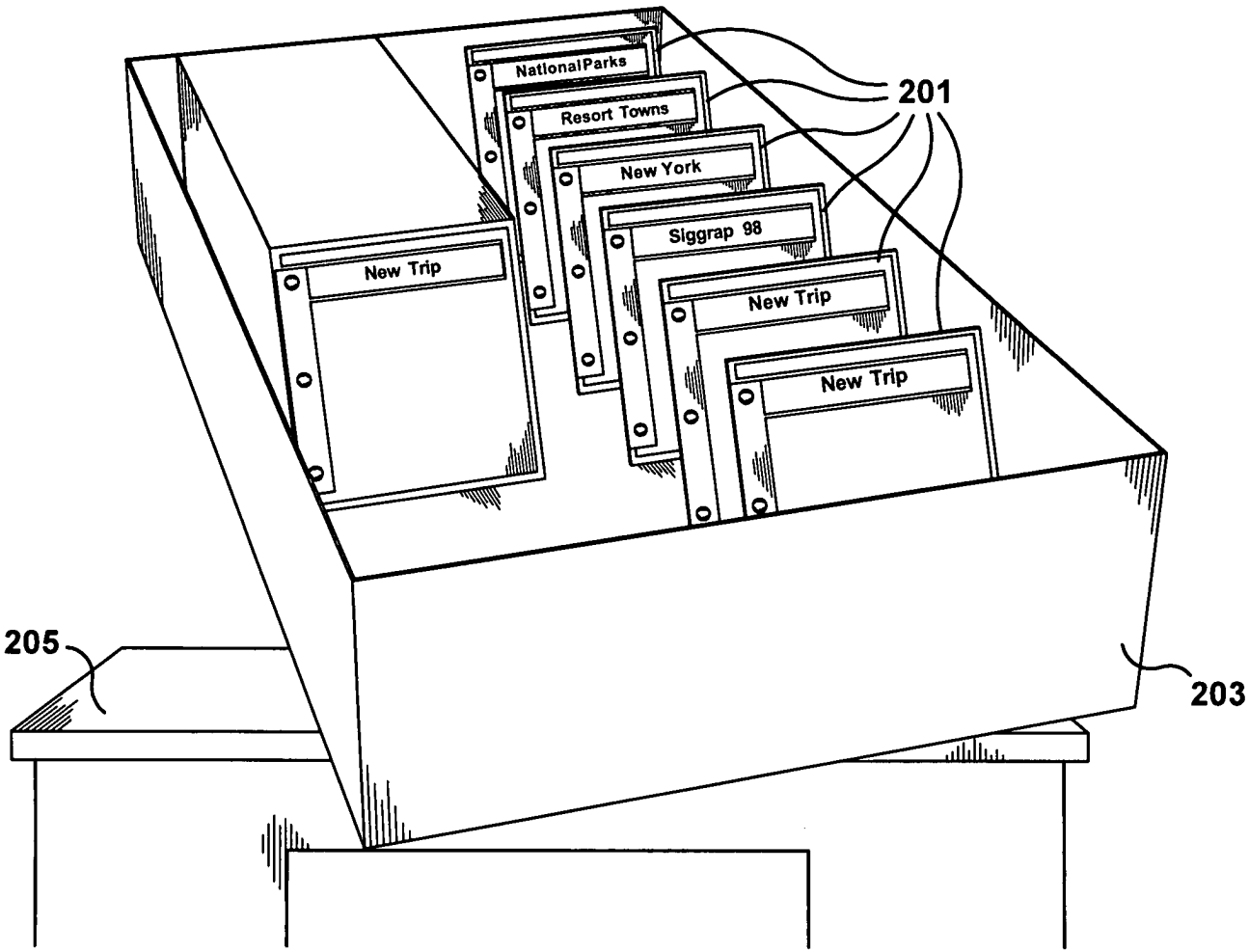

NationalParks
Resort Towns
New York
Siggrap 98
New Trip
New Trip
New Trip
201
205
203

FIGURE 2C

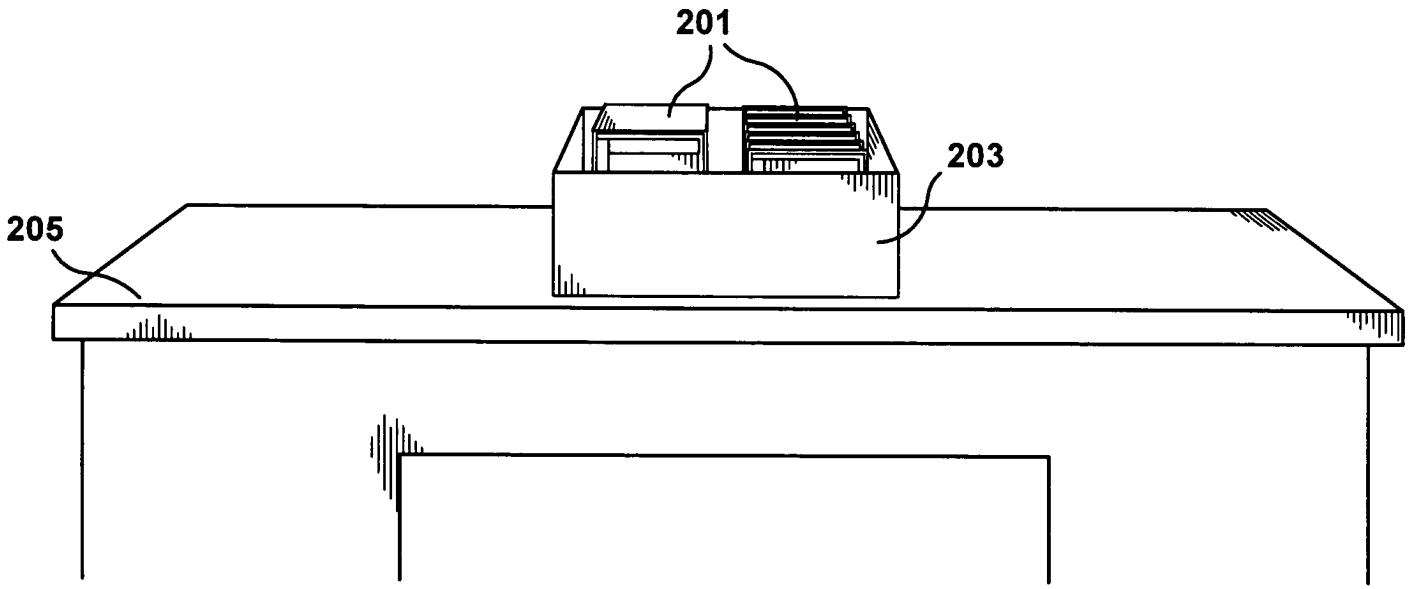


FIGURE 2D

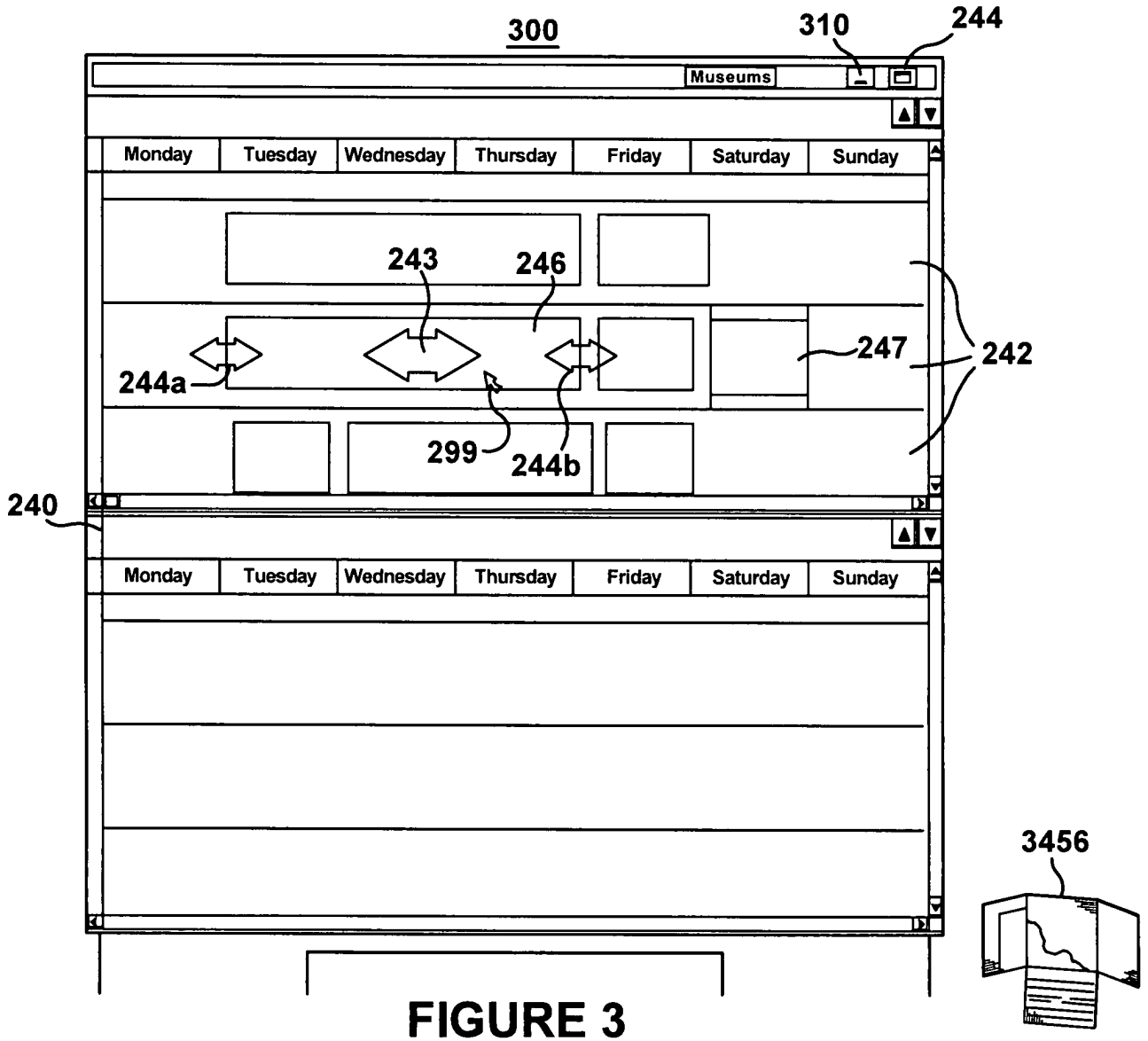

300
310
244
Museums
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
243
246
247
242
244a
299
244b
240
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
3456

FIGURE 3

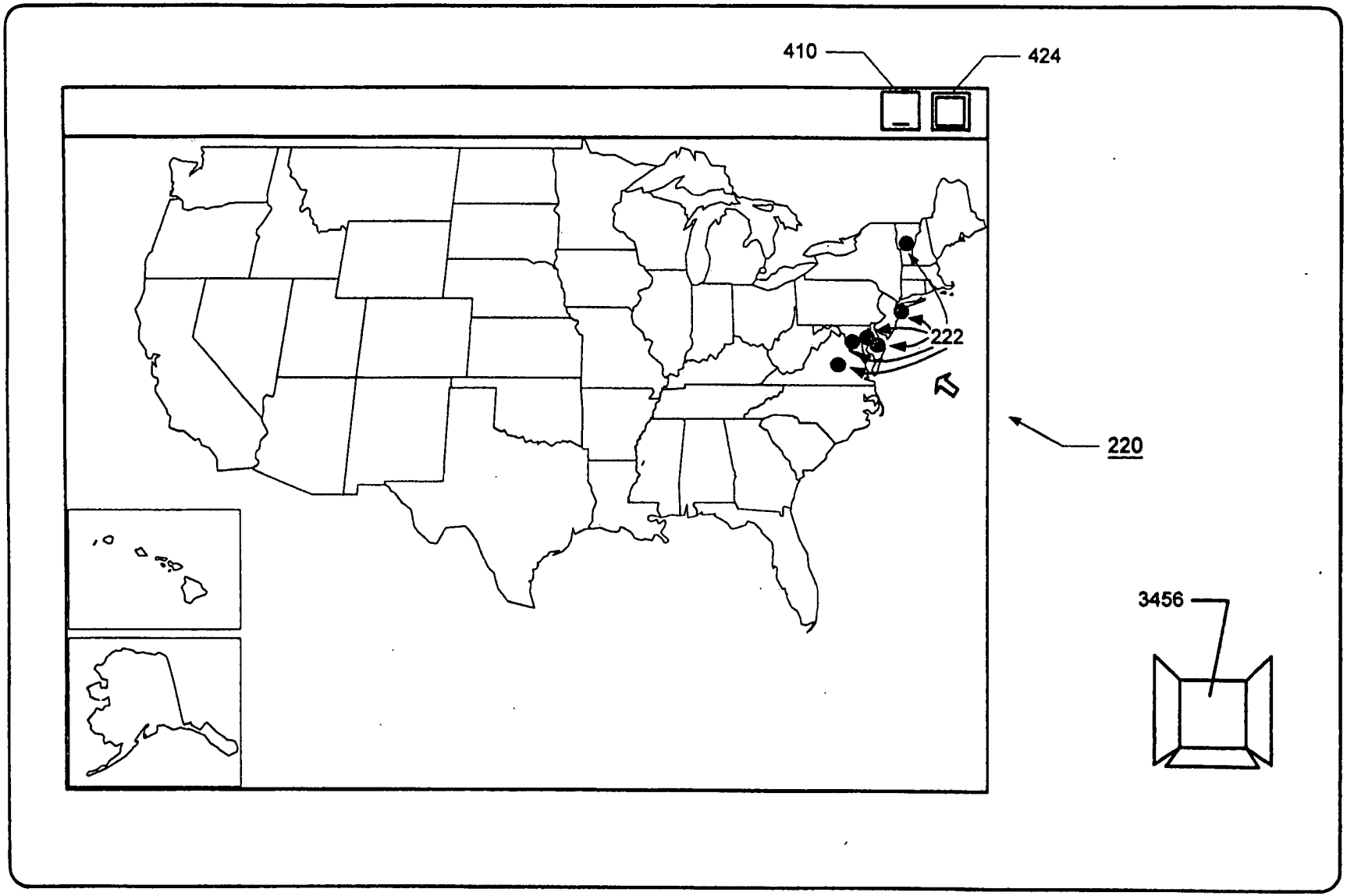


FIGURE 4A

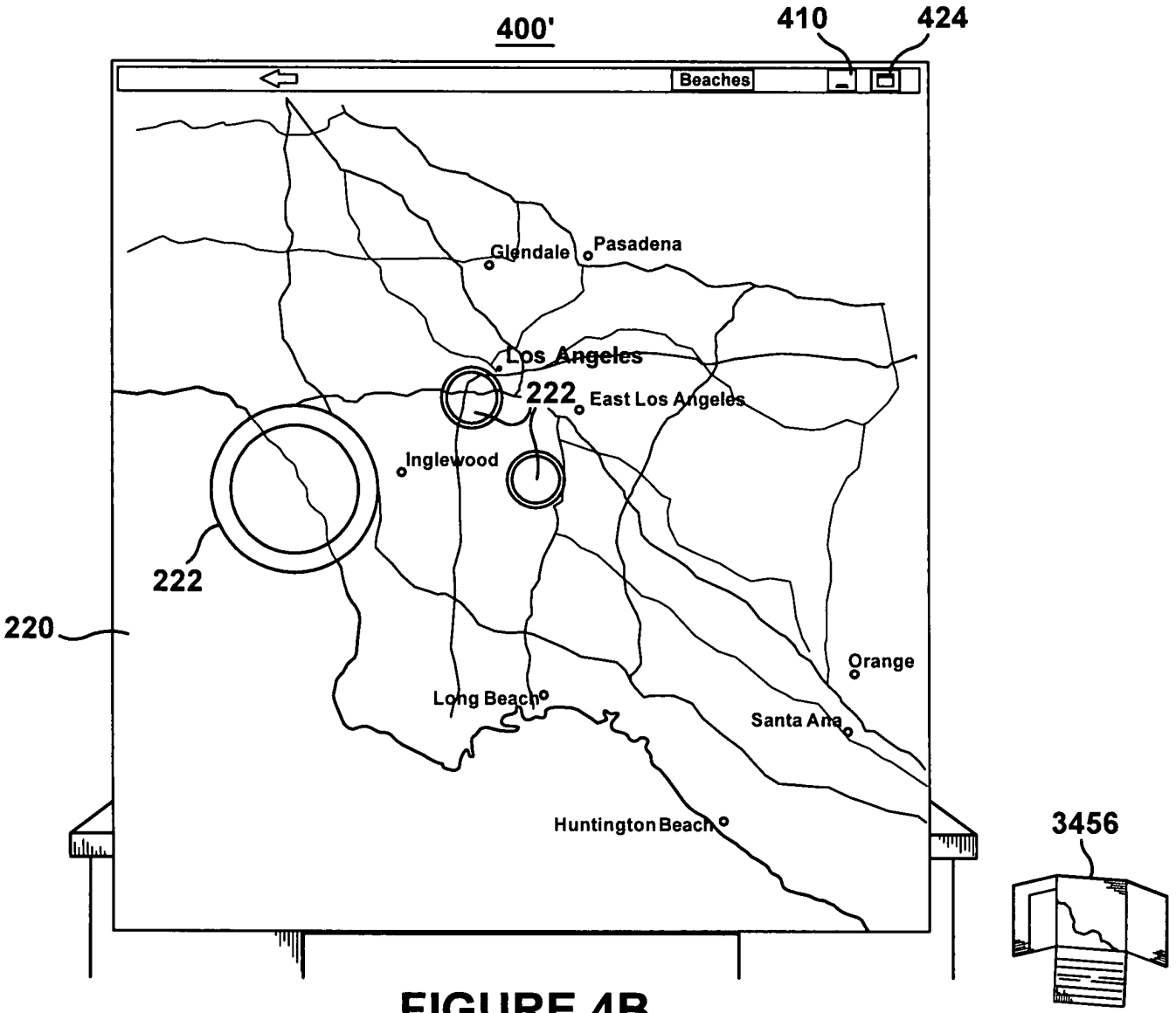

400'
410
424
Beaches
Glendale
Pasadena
Los Angeles
222
East Los Angeles
Inglewood
222
220
Orange
Long Beach
Santa Ana
Huntington Beach
3456

FIGURE 4B

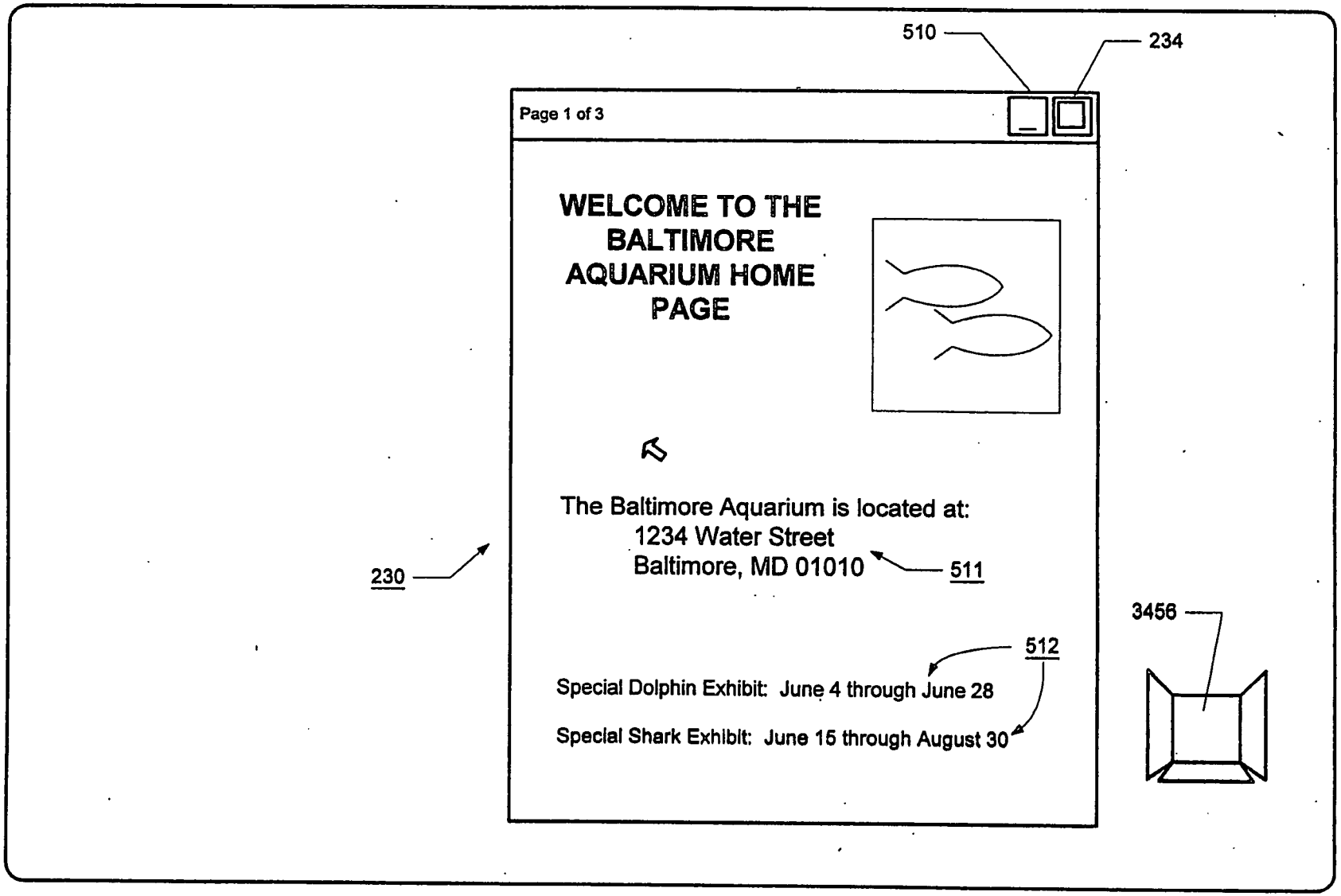

510
234
Page 1 of 3
WELCOME TO THE BALTIMORE AQUARIUM HOME PAGE
The Baltimore Aquarium is located at:
1234 Water Street
Baltimore, MD 01010
511
230
512
Special Dolphin Exhibit: June 4 through June 28
Special Shark Exhibit: June 15 through August 30
3456
500

FIGURE 5A

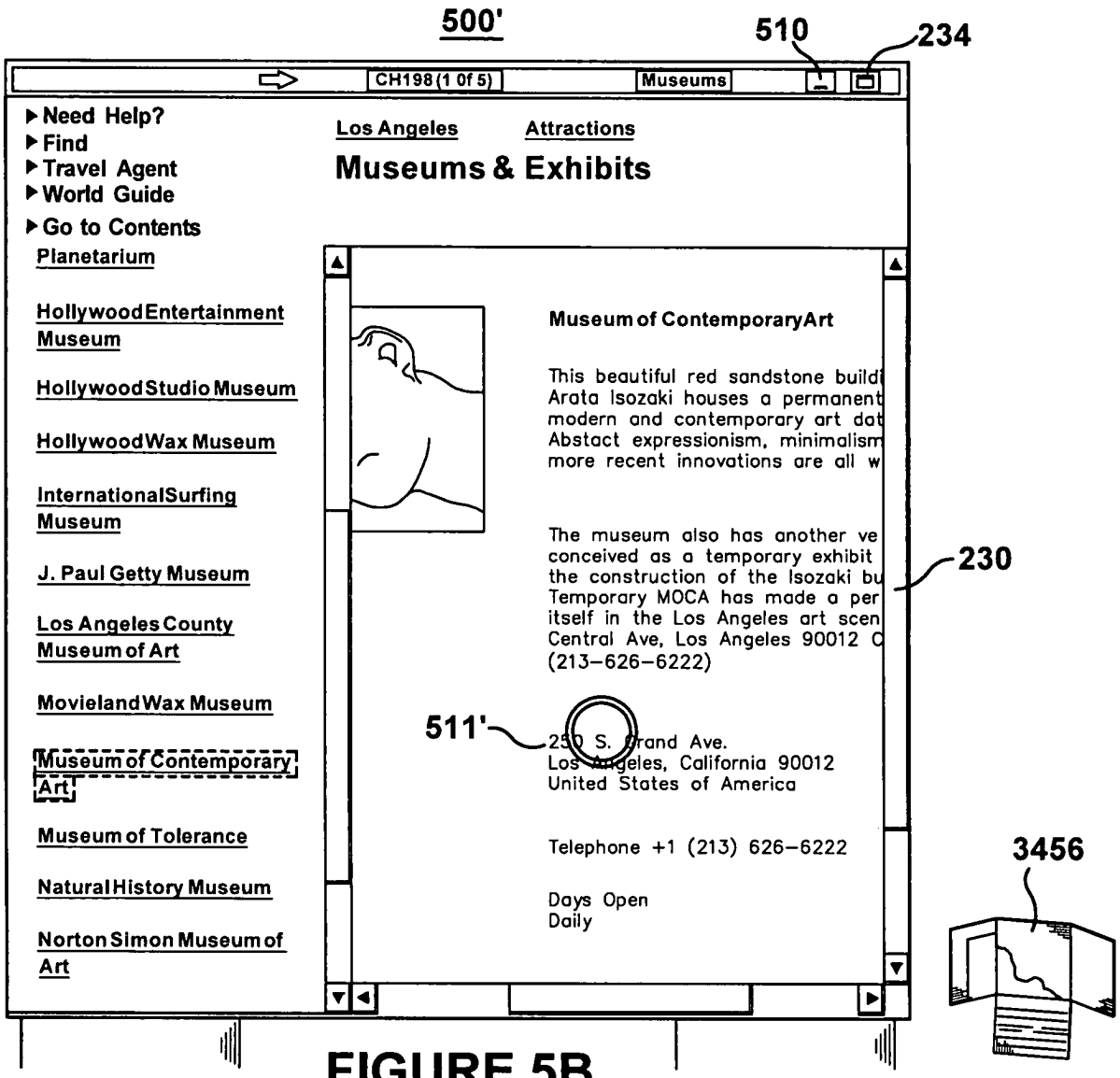
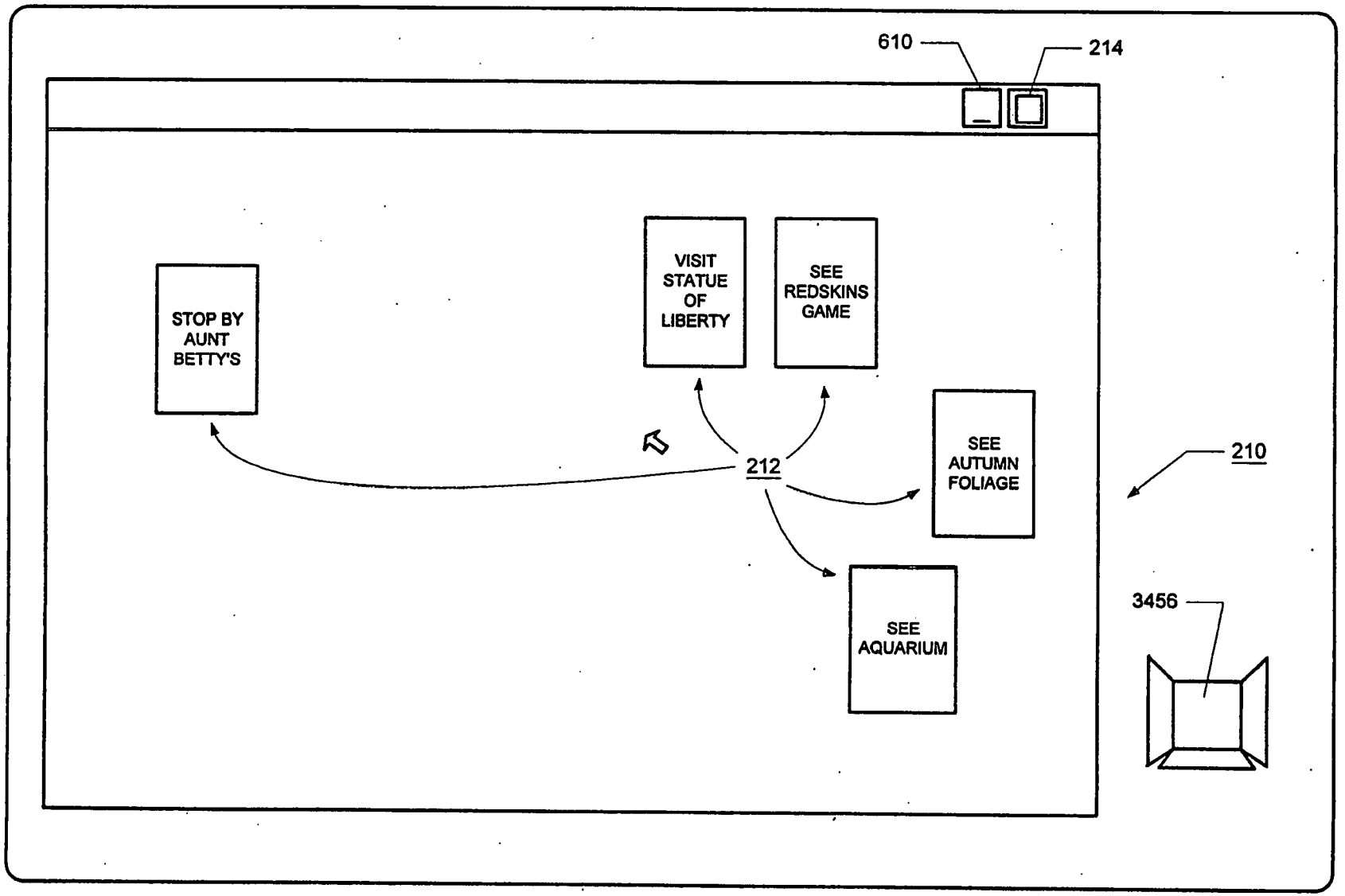

500'
510
234
CH198 (1 of 5)
Museums
Need Help?
Find
Travel Agent
World Guide
Go to Contents
Los Angeles
Attractions
Museums & Exhibits
Planetarium
HollywoodEntertainment Museum
HollywoodStudio Museum
HollywoodWax Museum
InternationalSurfing Museum
J. Paul Getty Museum
Los Angeles County Museum of Art
MovielandWax Museum
Museum of Contemporary Art
Museum of Tolerance
NaturalHistory Museum
Norton Simon Museum of Art
Museum of ContemporaryArt
This beautiful red sandstone build
Arata Isozaki houses a permanent
modern and contemporary art dat
Abstact expressionism, minimalism
more recent innovations are all w
The museum also has another ve
conceived as a temporary exhibit
the construction of the Isozaki bu
Temporary MOCA has made a per
itself in the Los Angeles art scen
Central Ave, Los Angeles 90012 C
(213–626–6222)
230
511'
250 S. Grand Ave.
Los Angeles, California 90012
United States of America
Telephone +1 (213) 626–6222
Days Open
Daily
3456

FIGURE 5B



600

FIGURE 6A

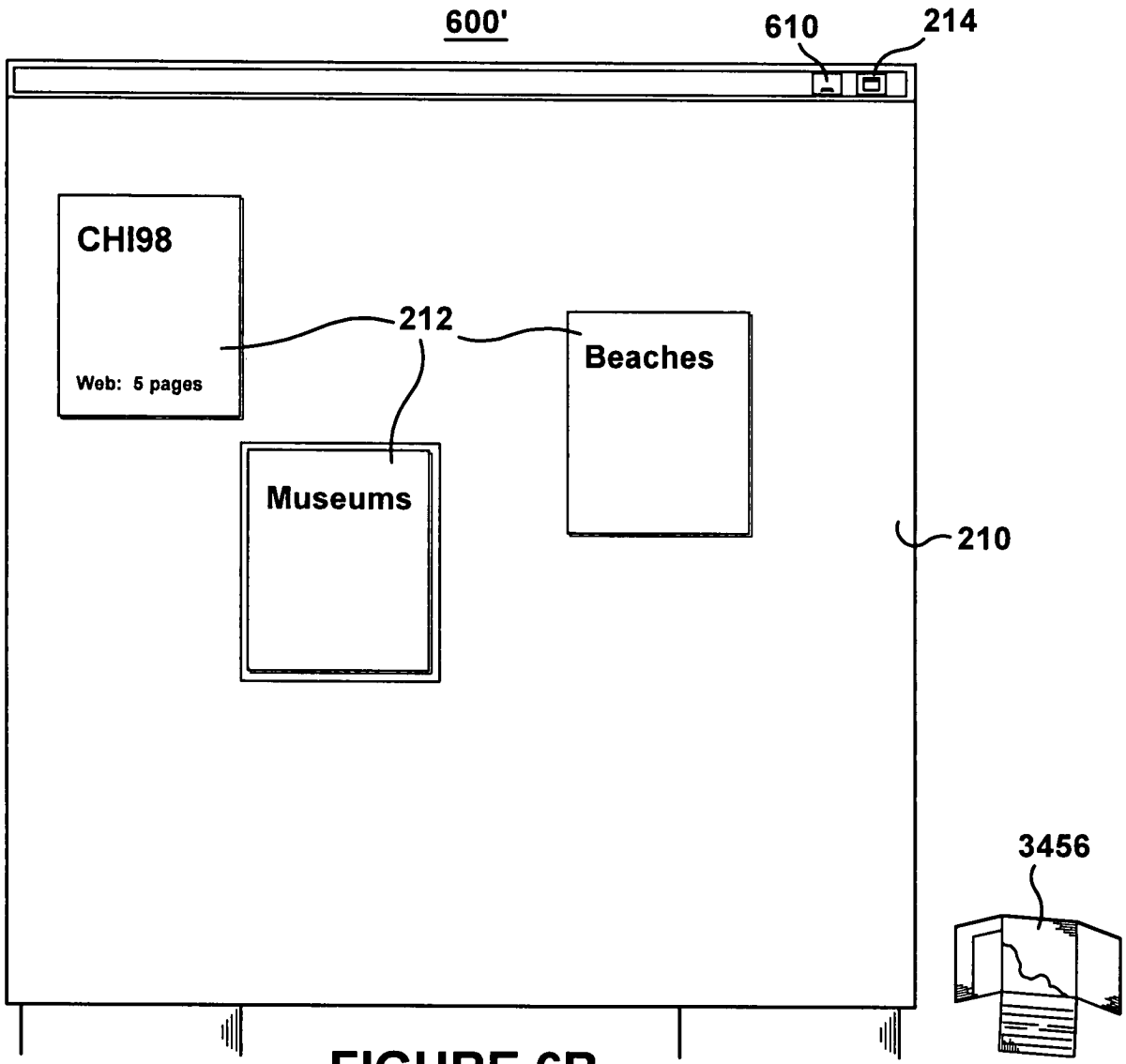


FIGURE 6B

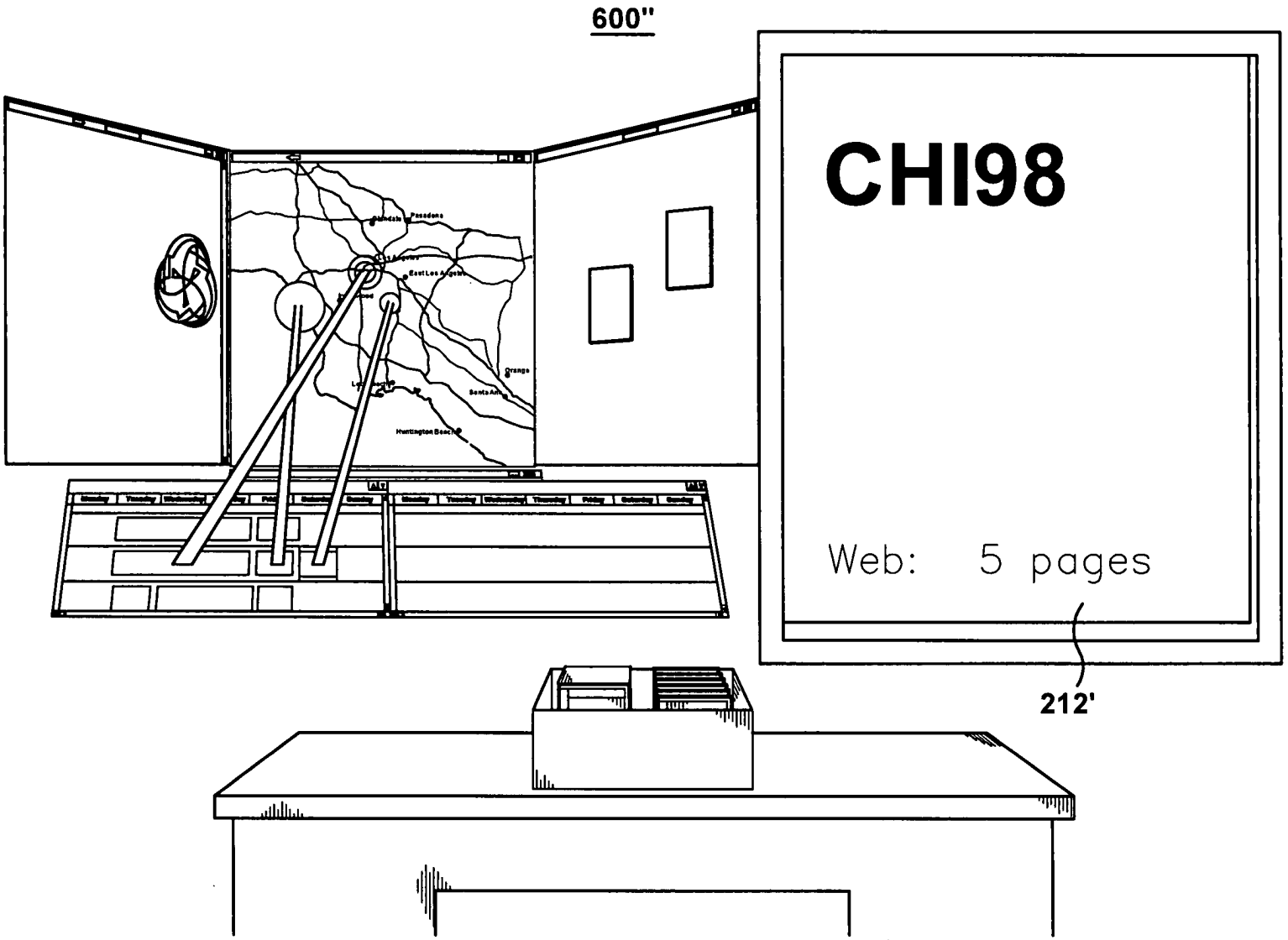


FIGURE 6C

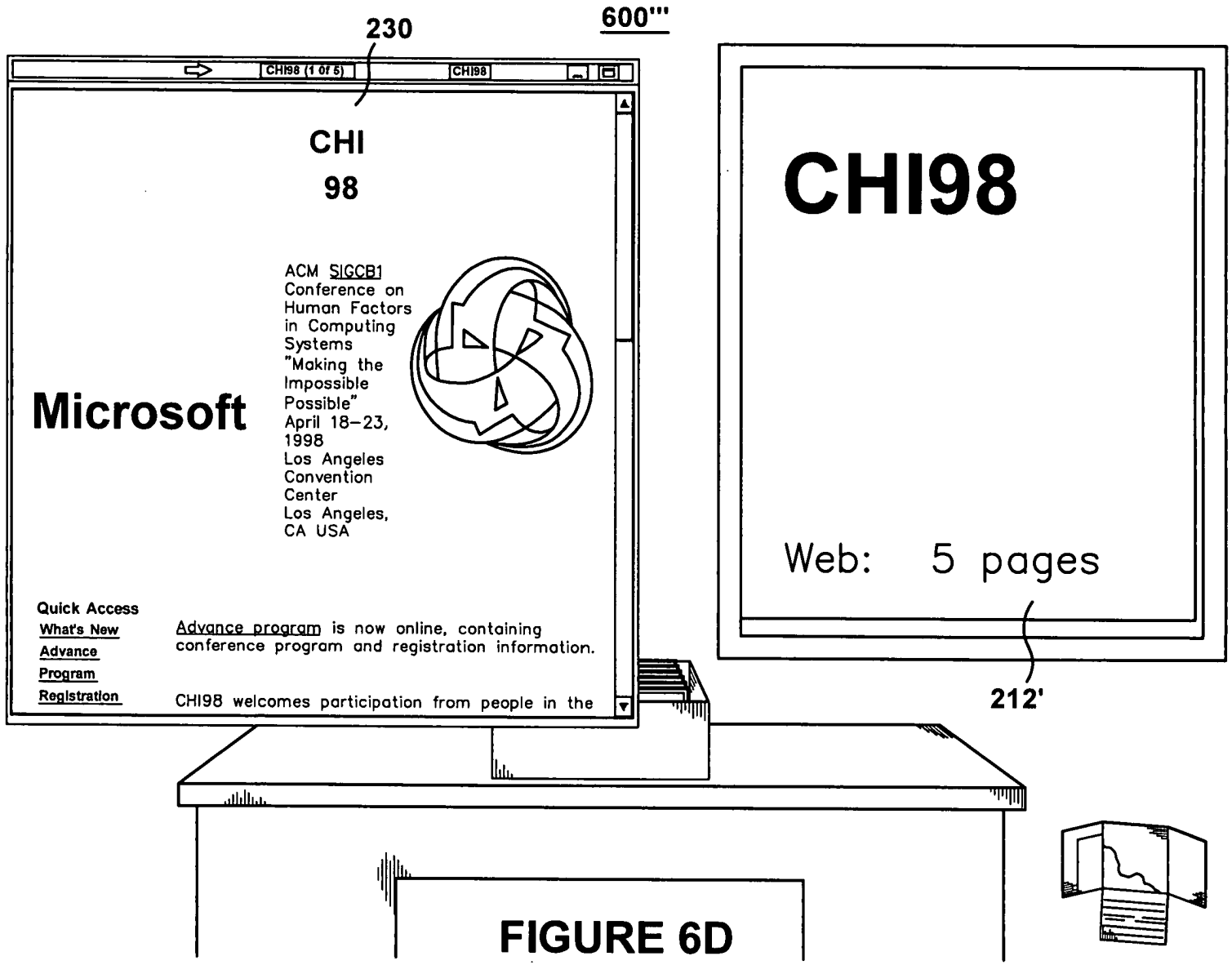

600'''
230
CHI98 (1 of 5)
CHI98
CHI
98
Microsoft
ACM SIGCBI
Conference on
Human Factors
in Computing
Systems
"Making the
Impossible
Possible"
April 18–23,
1998
Los Angeles
Convention
Center
Los Angeles,
CA USA
Quick Access
What's New
Advance
Program
Registration
Advance program is now online, containing conference program and registration information.
CHI98 welcomes participation from people in the
CHI98
Web: 5 pages
212'

FIGURE 6D

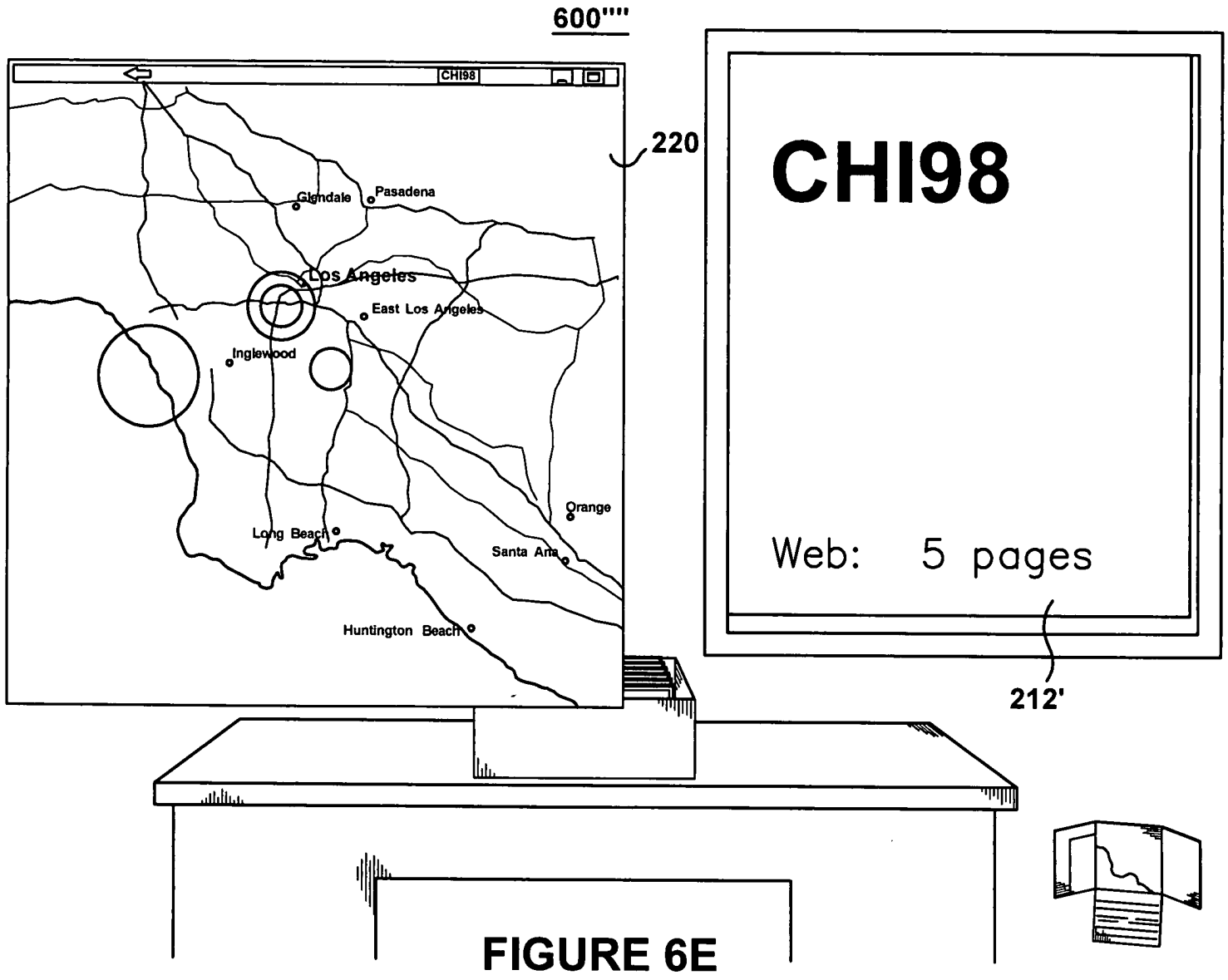

600''''
CHI98
220
Glendale
Pasadena
Los Angeles
East Los Angeles
Inglewood
Orange
Long Beach
Santa Ana
Huntington Beach
CHI98
Web: 5 pages
212'

FIGURE 6E

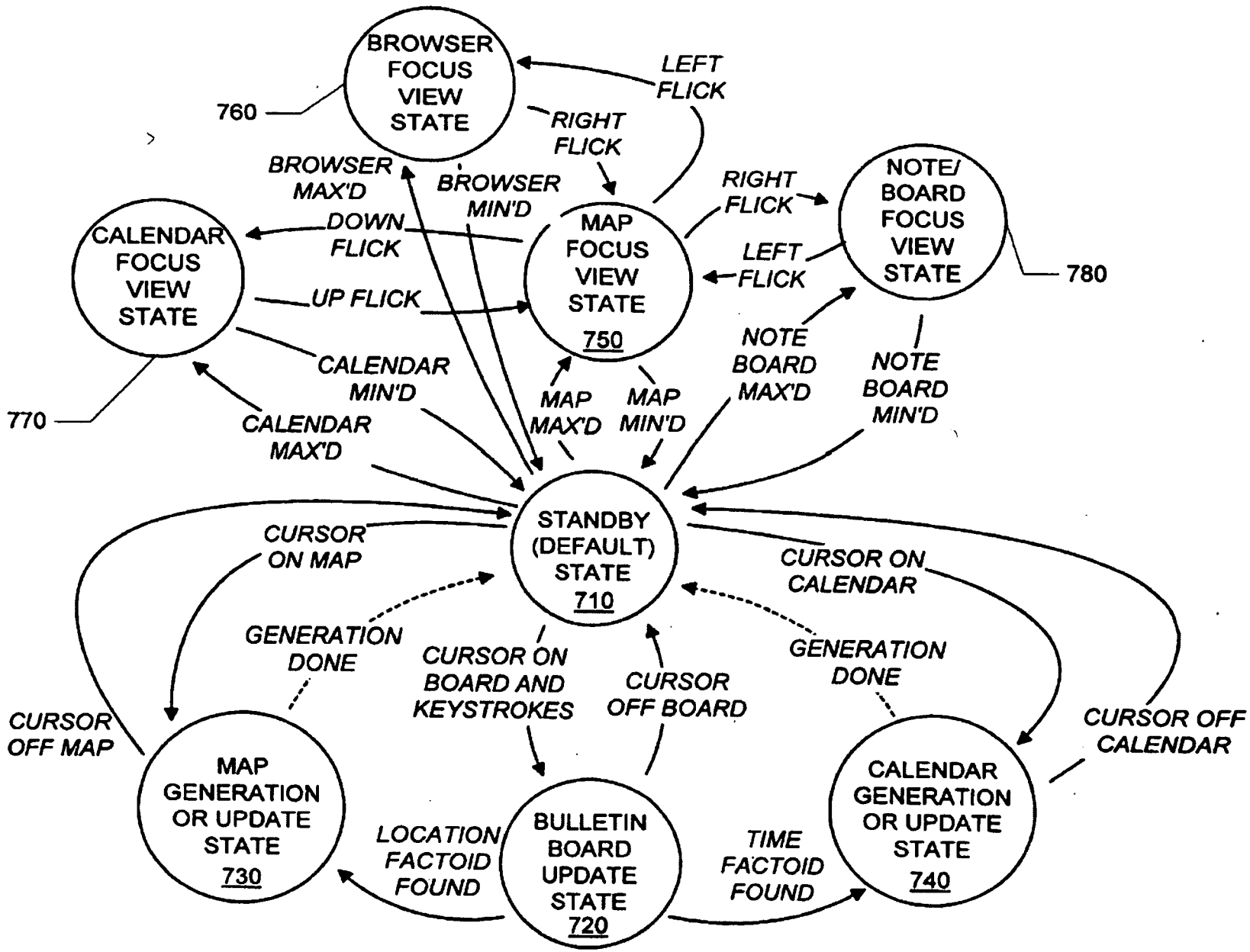

BROWSER FOCUS VIEW STATE
760
LEFT FLICK
RIGHT FLICK
BROWSER MAX'D
BROWSER MIN'D
CALENDAR FOCUS VIEW STATE
DOWN FLICK
MAP FOCUS VIEW STATE
750
RIGHT FLICK
LEFT FLICK
NOTE/ BOARD FOCUS VIEW STATE
780
UP FLICK
770
CALENDAR MIN'D
CALENDAR MAX'D
MAP MAX'D
MAP MIN'D
NOTE BOARD MAX'D
NOTE BOARD MIN'D
STANDBY (DEFAULT) STATE
710
CURSOR ON MAP
CURSOR ON CALENDAR
GENERATION DONE
CURSOR ON BOARD AND KEYSTROKES
CURSOR OFF BOARD
GENERATION DONE
CURSOR OFF MAP
CURSOR OFF CALENDAR
MAP GENERATION OR UPDATE STATE
730
LOCATION FACTOID FOUND
BULLETIN BOARD UPDATE STATE
720
TIME FACTOID FOUND
CALENDAR GENERATION OR UPDATE STATE
740

FIGURE 7

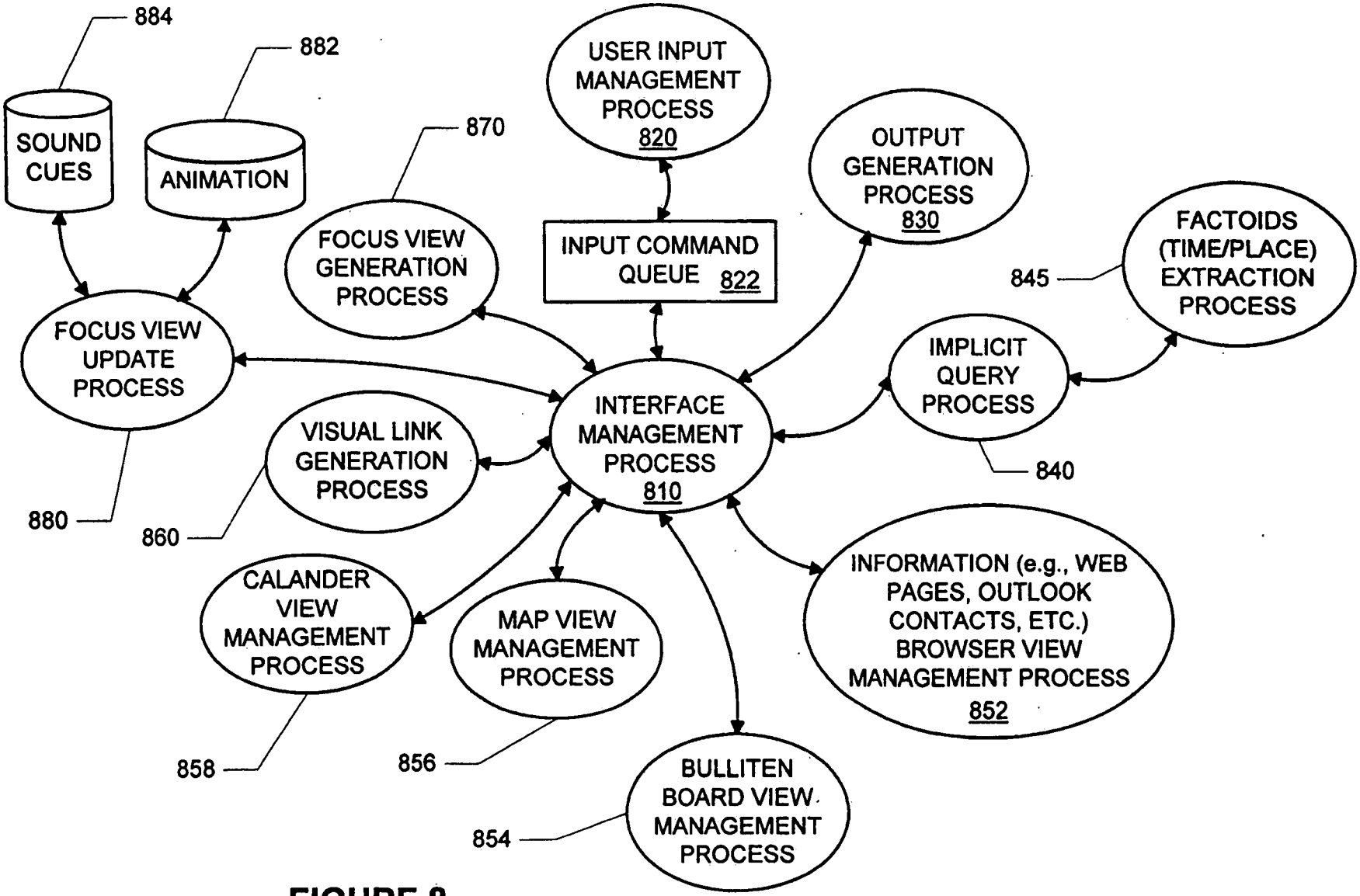

884
882
SOUND CUES
ANIMATION
USER INPUT MANAGEMENT PROCESS 820
870
OUTPUT GENERATION PROCESS 830
FACTOIDS (TIME/PLACE) EXTRACTION PROCESS
845
FOCUS VIEW GENERATION PROCESS
INPUT COMMAND QUEUE 822
FOCUS VIEW UPDATE PROCESS
IMPLICIT QUERY PROCESS
INTERFACE MANAGEMENT PROCESS 810
VISUAL LINK GENERATION PROCESS
840
880
860
CALANDER VIEW MANAGEMENT PROCESS
MAP VIEW MANAGEMENT PROCESS
INFORMATION (e.g., WEB PAGES, OUTLOOK CONTACTS, ETC.) BROWSER VIEW MANAGEMENT PROCESS 852
858
856
BULLITEN BOARD VIEW MANAGEMENT PROCESS
854

FIGURE 8

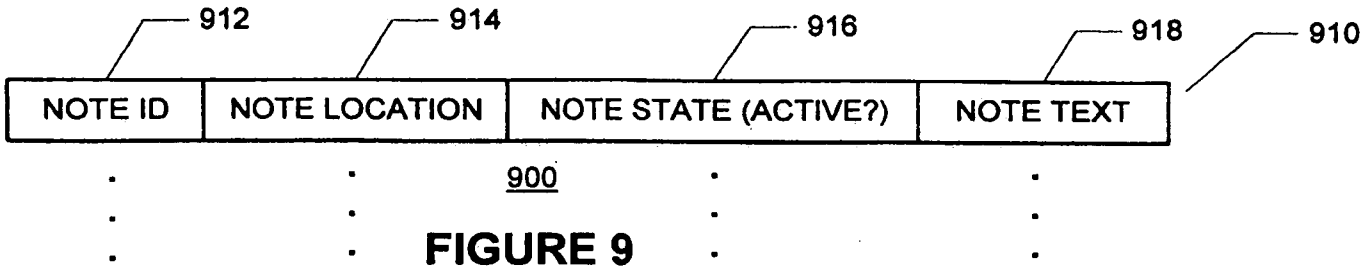


FIGURE 9

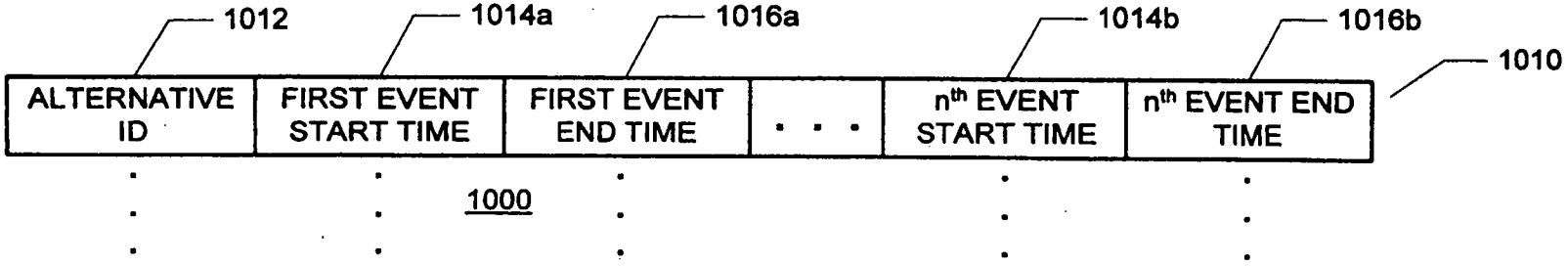


FIGURE 10

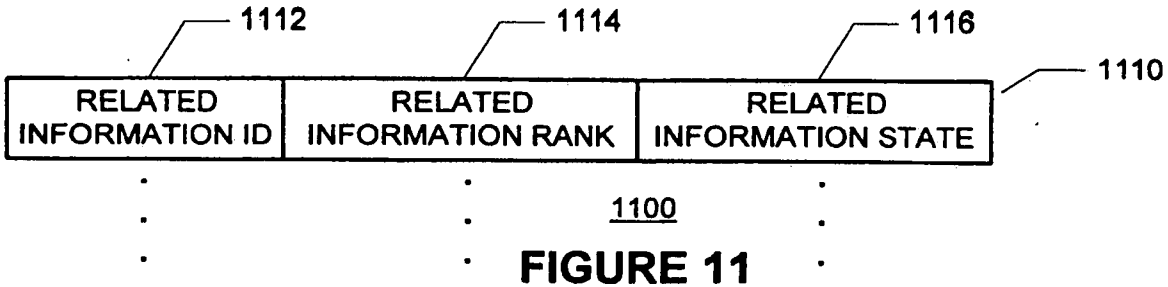


FIGURE 11

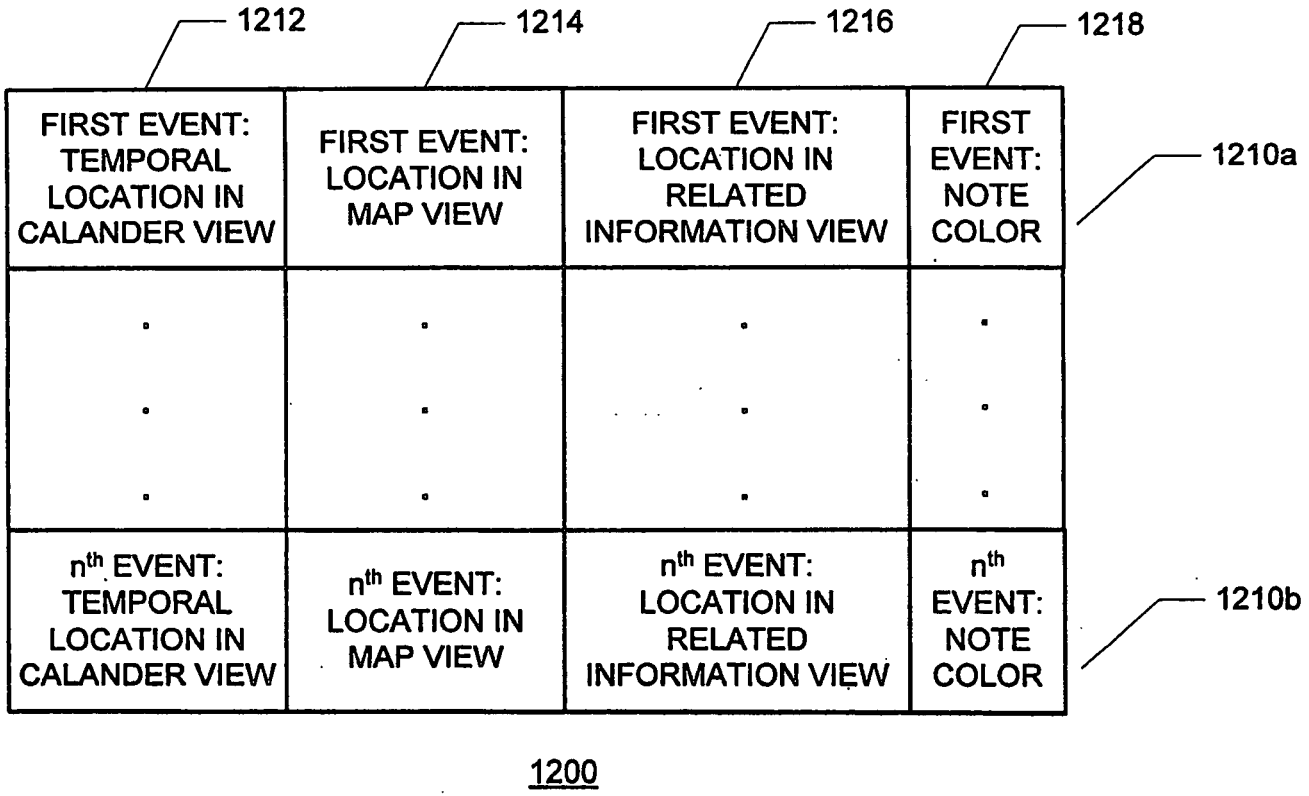

1212
1214
1216
1218
FIRST EVENT: TEMPORAL LOCATION IN CALANDER VIEW
FIRST EVENT: LOCATION IN MAP VIEW
FIRST EVENT: LOCATION IN RELATED INFORMATION VIEW
FIRST EVENT: NOTE COLOR
1210a
nth EVENT: TEMPORAL LOCATION IN CALANDER VIEW
nth EVENT: LOCATION IN MAP VIEW
nth EVENT: LOCATION IN RELATED INFORMATION VIEW
nth EVENT: NOTE COLOR
1210b
1200

FIGURE 12

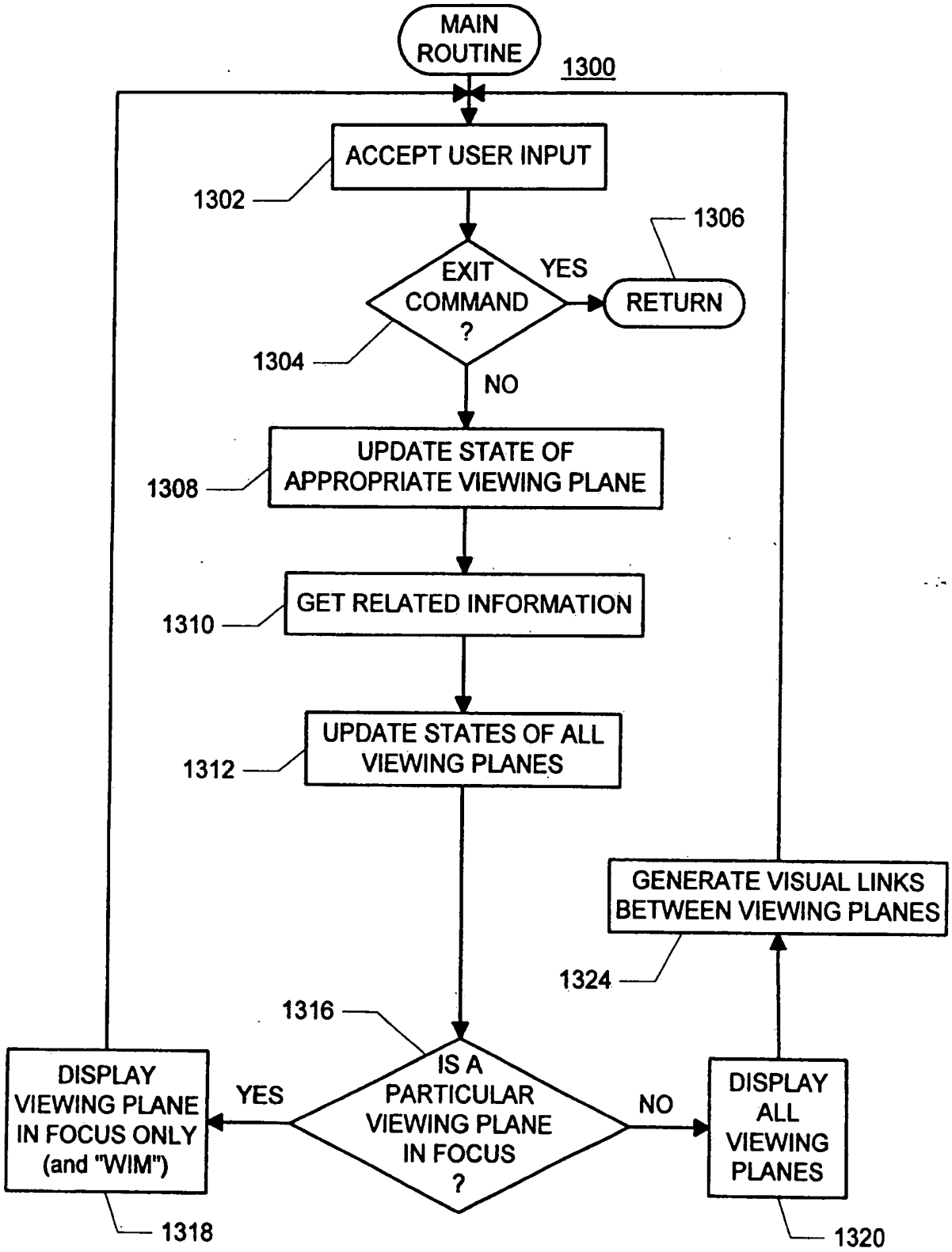

MAIN ROUTINE
1300
ACCEPT USER INPUT
1302
EXIT COMMAND ?
YES
1306
RETURN
1304
NO
UPDATE STATE OF APPROPRIATE VIEWING PLANE
1308
GET RELATED INFORMATION
1310
UPDATE STATES OF ALL VIEWING PLANES
1312
GENERATE VISUAL LINKS BETWEEN VIEWING PLANES
1324
1316
IS A PARTICULAR VIEWING PLANE IN FOCUS ?
YES
NO
DISPLAY VIEWING PLANE IN FOCUS ONLY (and "WIM")
1318
DISPLAY ALL VIEWING PLANES
1320

FIGURE 13

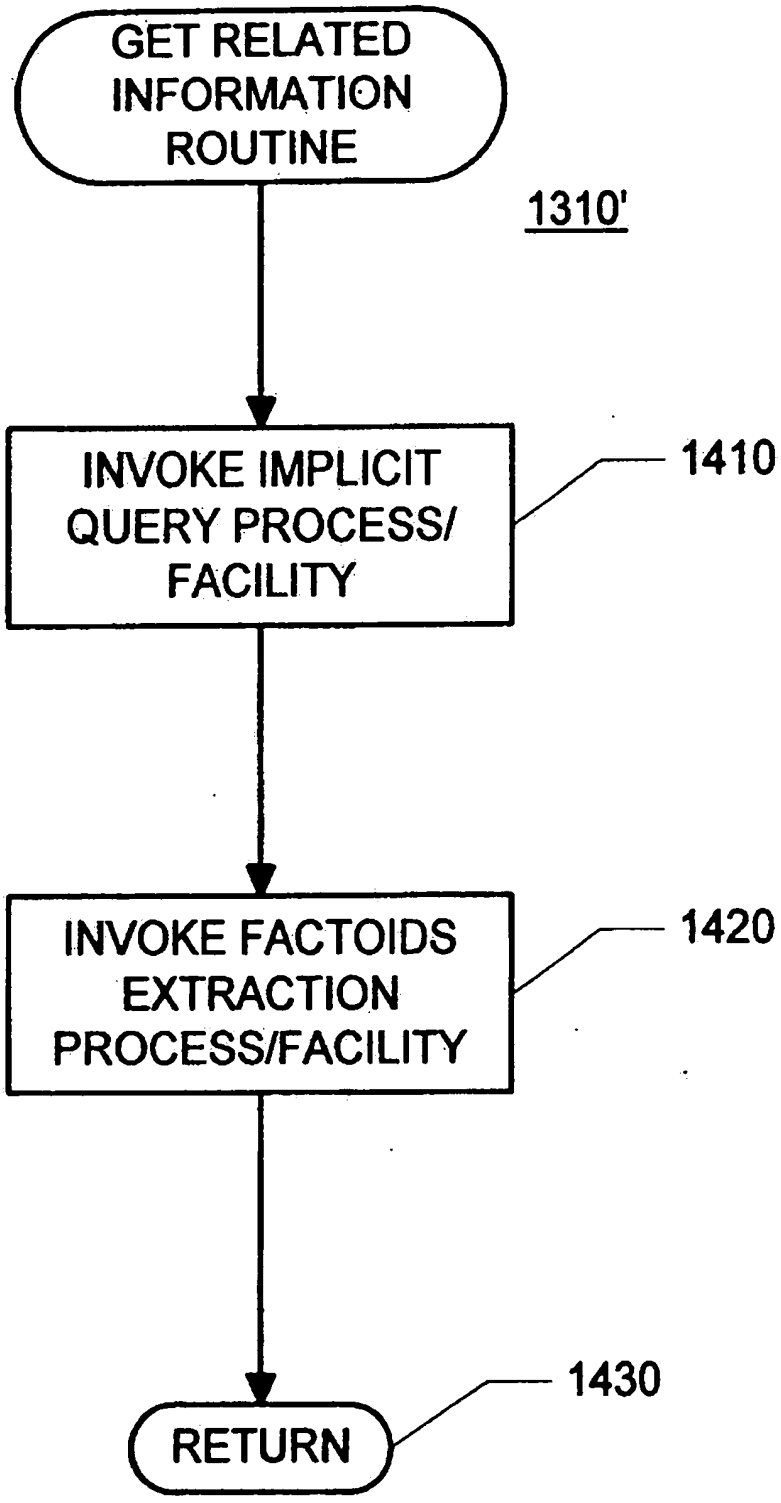

GET RELATED INFORMATION ROUTINE
1310'
INVOKE IMPLICIT QUERY PROCESS/ FACILITY
1410
INVOKE FACTOIDS EXTRACTION PROCESS/FACILITY
1420
RETURN
1430

FIGURE 14

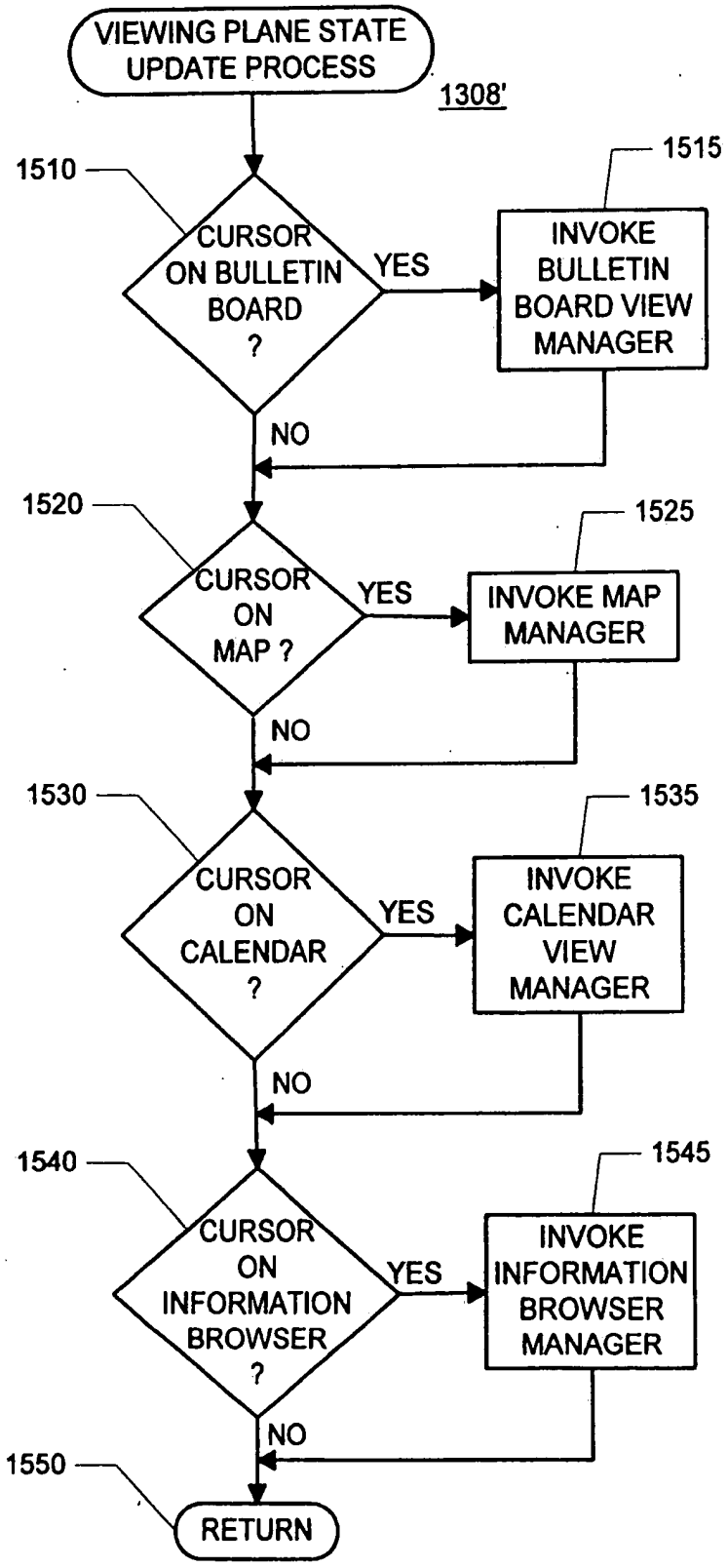

VIEWING PLANE STATE UPDATE PROCESS
1308'
1510
CURSOR ON BULLETIN BOARD ?
YES
1515
INVOKE BULLETIN BOARD VIEW MANAGER
NO
1520
CURSOR ON MAP ?
YES
1525
INVOKE MAP MANAGER
NO
1530
CURSOR ON CALENDAR ?
YES
1535
INVOKE CALENDAR VIEW MANAGER
NO
1540
CURSOR ON INFORMATION BROWSER ?
YES
1545
INVOKE INFORMATION BROWSER MANAGER
NO
1550
RETURN

FIGURE 15

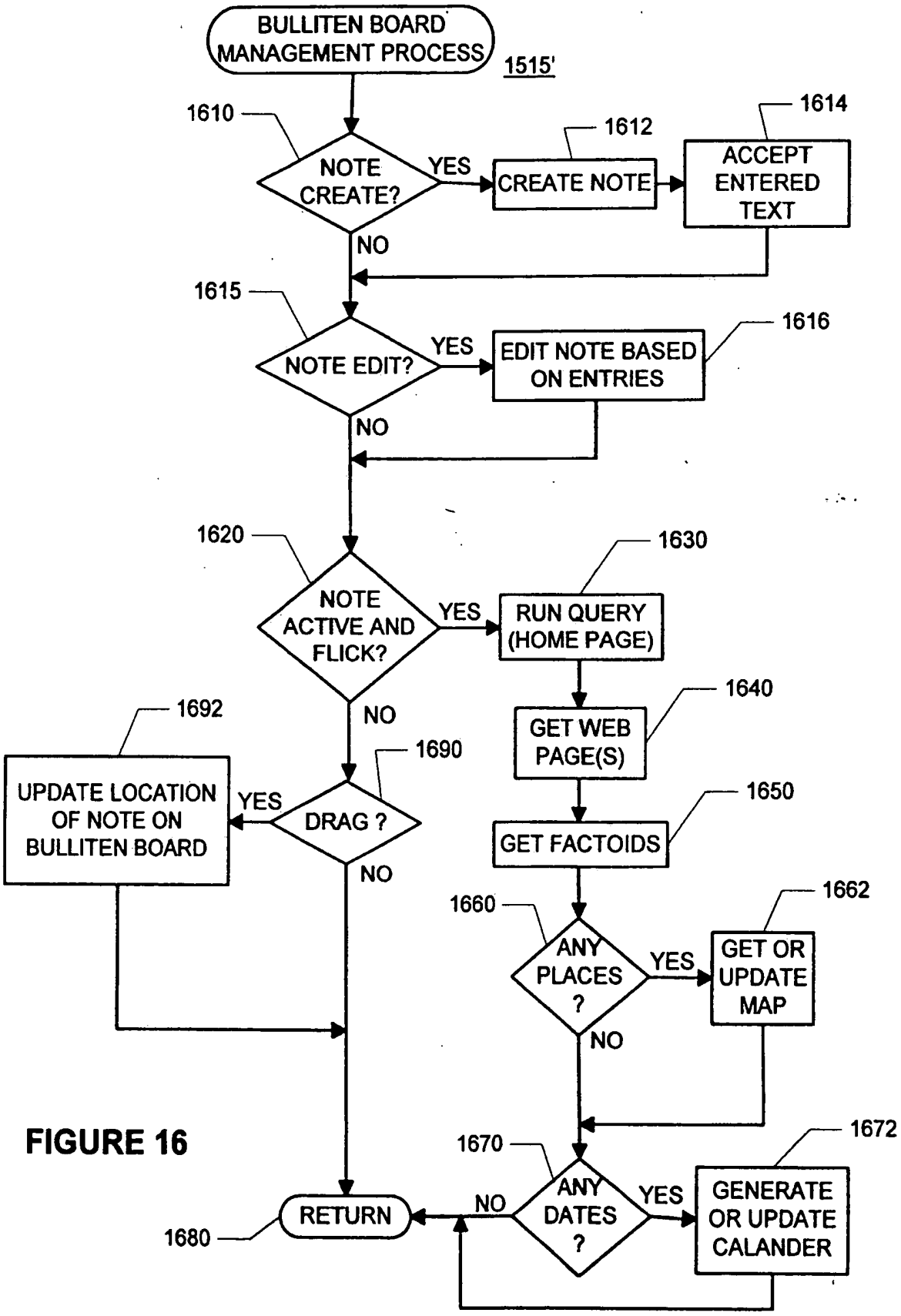

BULLITEN BOARD MANAGEMENT PROCESS
1515'
1610
NOTE CREATE?
YES
1612
CREATE NOTE
1614
ACCEPT ENTERED TEXT
NO
1615
NOTE EDIT?
YES
EDIT NOTE BASED ON ENTRIES
1616
NO
1620
NOTE ACTIVE AND FLICK?
YES
1630
RUN QUERY (HOME PAGE)
NO
1640
GET WEB PAGE(S)
1692
1690
UPDATE LOCATION OF NOTE ON BULLITEN BOARD
YES
DRAG ?
1650
GET FACTOIDS
NO
1660
1662
ANY PLACES ?
YES
GET OR UPDATE MAP
NO
1670
1672
ANY DATES ?
YES
GENERATE OR UPDATE CALANDER
NO
RETURN
1680

FIGURE 16

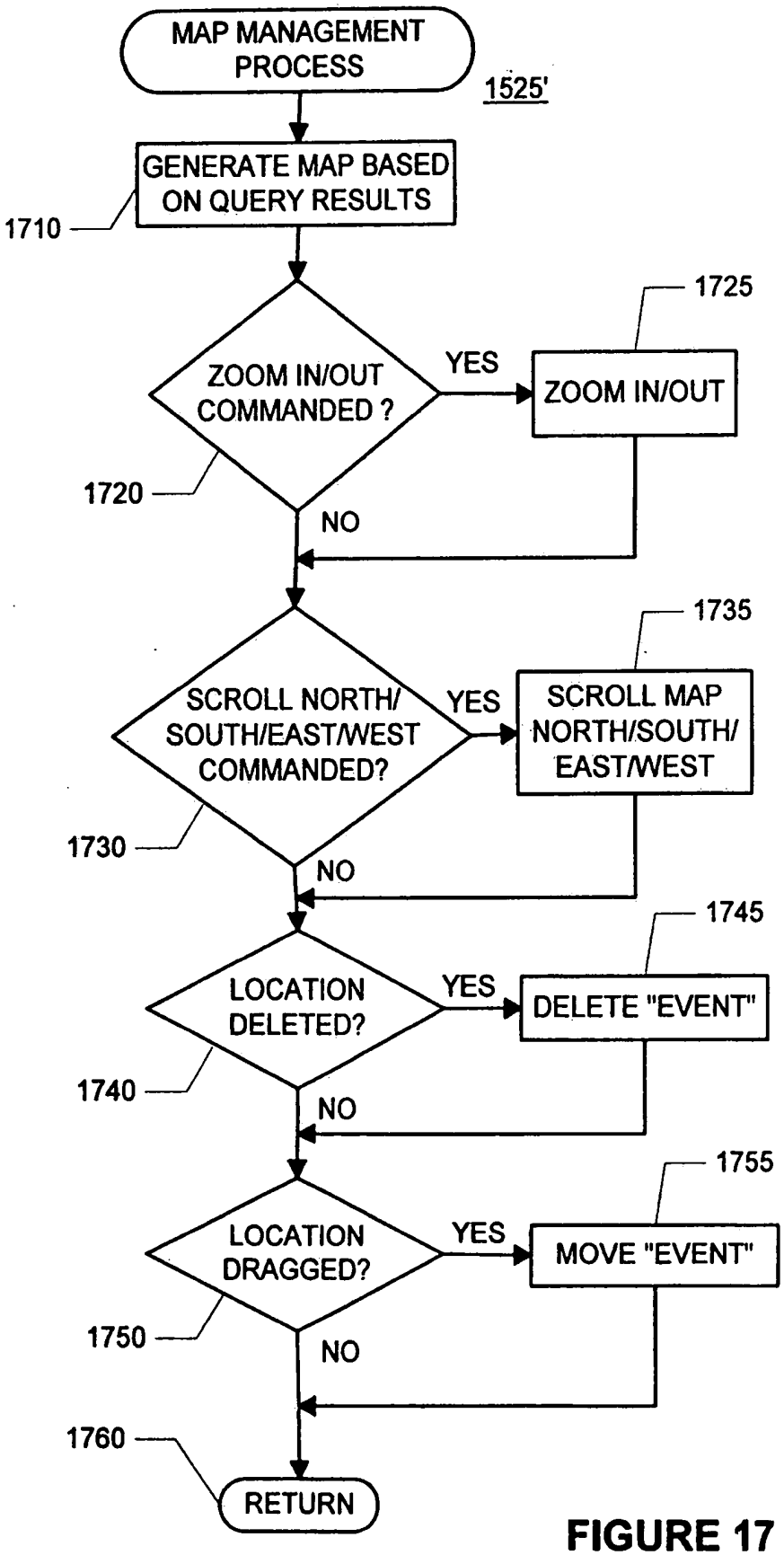

MAP MANAGEMENT PROCESS
1525'
GENERATE MAP BASED ON QUERY RESULTS
1710
ZOOM IN/OUT COMMANDED ?
YES
ZOOM IN/OUT
1725
1720
NO
SCROLL NORTH/ SOUTH/EAST/WEST COMMANDED?
YES
SCROLL MAP NORTH/SOUTH/ EAST/WEST
1735
1730
NO
LOCATION DELETED?
YES
DELETE "EVENT"
1745
1740
NO
LOCATION DRAGGED?
YES
MOVE "EVENT"
1755
1750
NO
1760
RETURN

FIGURE 17

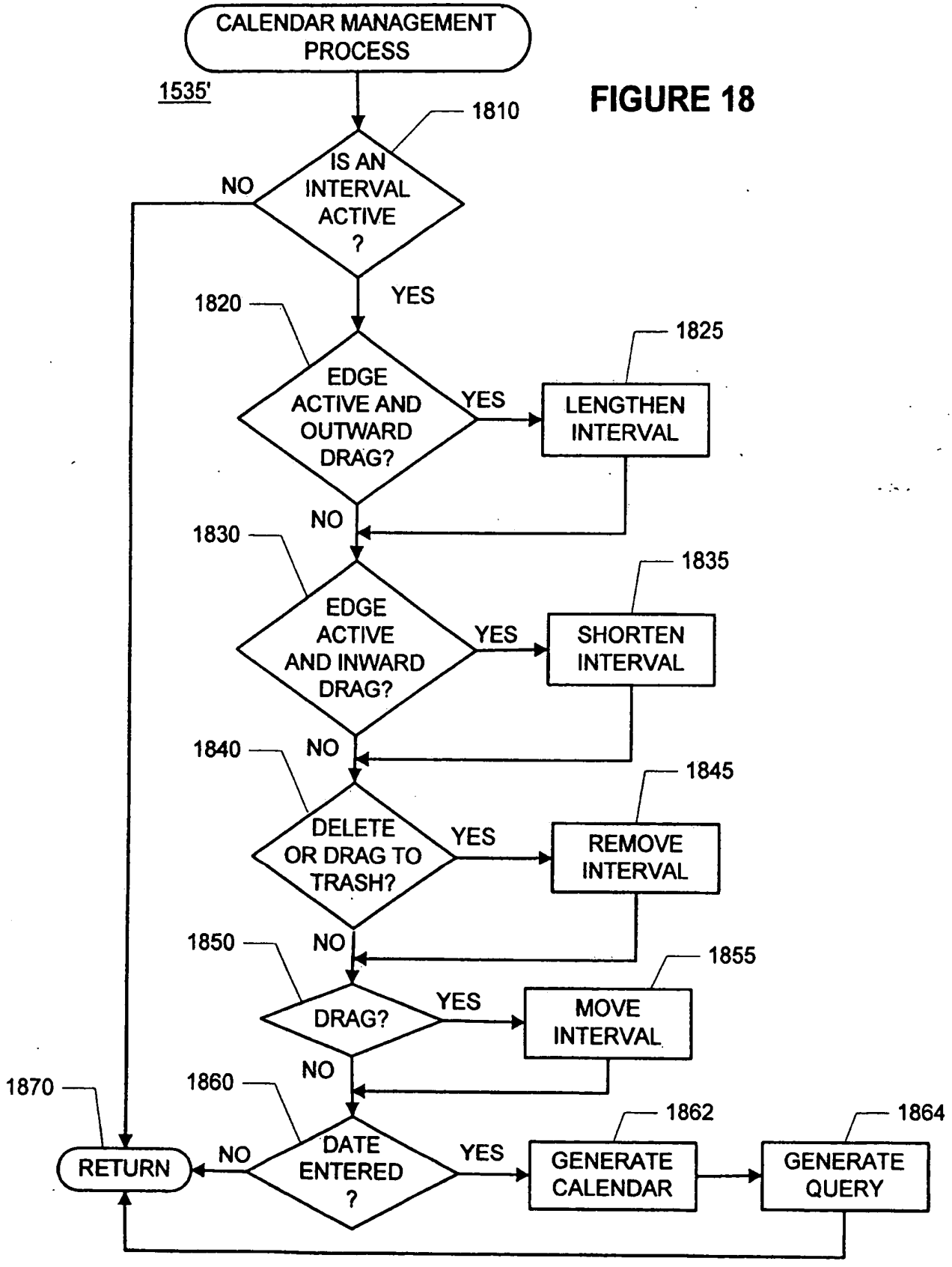

CALENDAR MANAGEMENT PROCESS
1535'
1810
IS AN INTERVAL ACTIVE ?
NO
YES
1820
EDGE ACTIVE AND OUTWARD DRAG?
YES
1825
LENGTHEN INTERVAL
NO
1830
EDGE ACTIVE AND INWARD DRAG?
YES
1835
SHORTEN INTERVAL
NO
1840
DELETE OR DRAG TO TRASH?
YES
1845
REMOVE INTERVAL
NO
1850
DRAG?
YES
1855
MOVE INTERVAL
NO
1860
DATE ENTERED ?
NO
YES
1862
GENERATE CALENDAR
1864
GENERATE QUERY
1870
RETURN

FIGURE 18

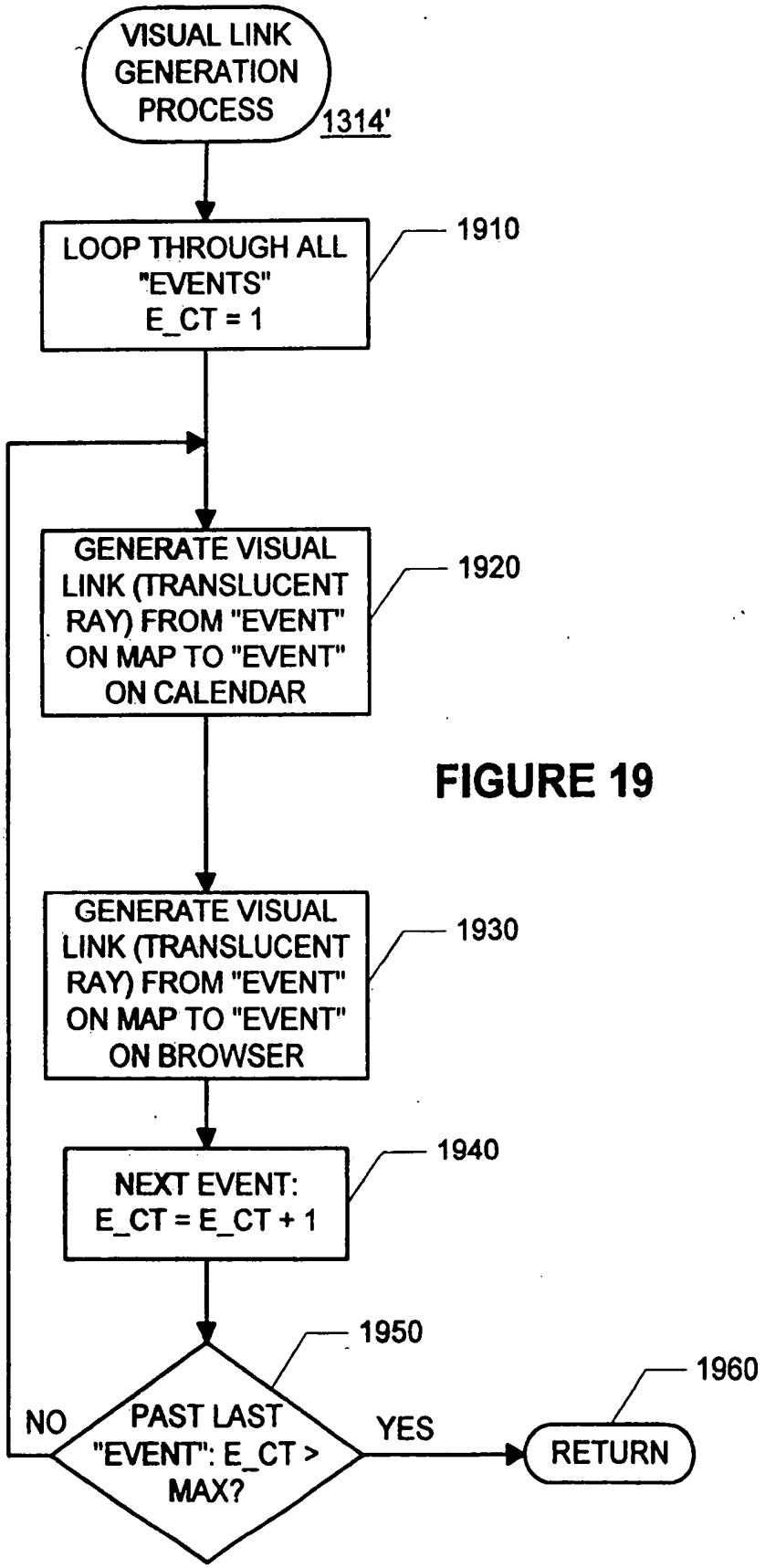

VISUAL LINK GENERATION PROCESS
1314'
LOOP THROUGH ALL "EVENTS" E_CT = 1
1910
GENERATE VISUAL LINK (TRANSLUCENT RAY) FROM "EVENT" ON MAP TO "EVENT" ON CALENDAR
1920
GENERATE VISUAL LINK (TRANSLUCENT RAY) FROM "EVENT" ON MAP TO "EVENT" ON BROWSER
1930
NEXT EVENT: E_CT = E_CT + 1
1940
PAST LAST "EVENT": E_CT > MAX?
1950
NO
YES
RETURN
1960

FIGURE 19

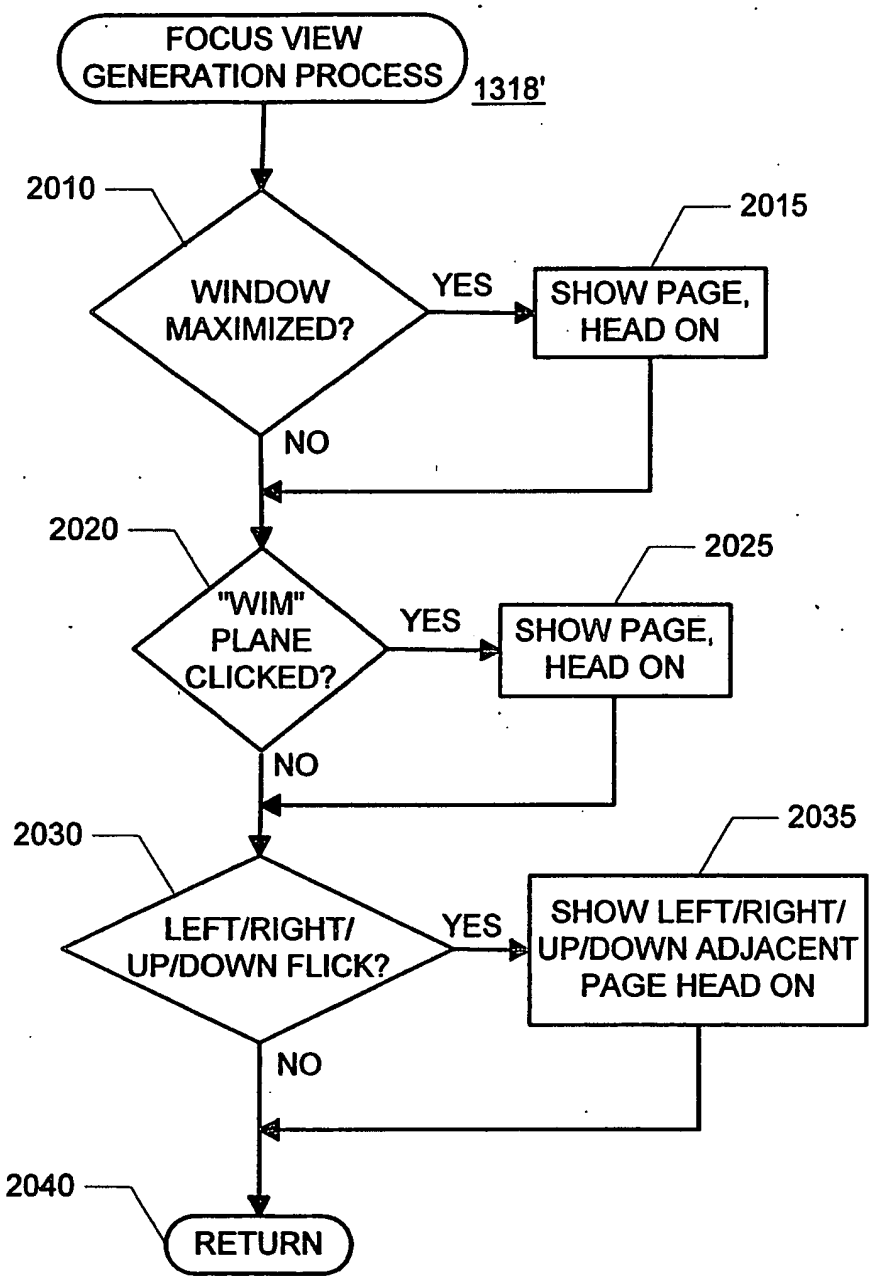

FOCUS VIEW GENERATION PROCESS
1318'
2010
WINDOW MAXIMIZED?
YES
2015
SHOW PAGE, HEAD ON
NO
2020
"WIM" PLANE CLICKED?
YES
2025
SHOW PAGE, HEAD ON
NO
2030
LEFT/RIGHT/ UP/DOWN FLICK?
YES
2035
SHOW LEFT/RIGHT/ UP/DOWN ADJACENT PAGE HEAD ON
NO
2040
RETURN

FIGURE 20

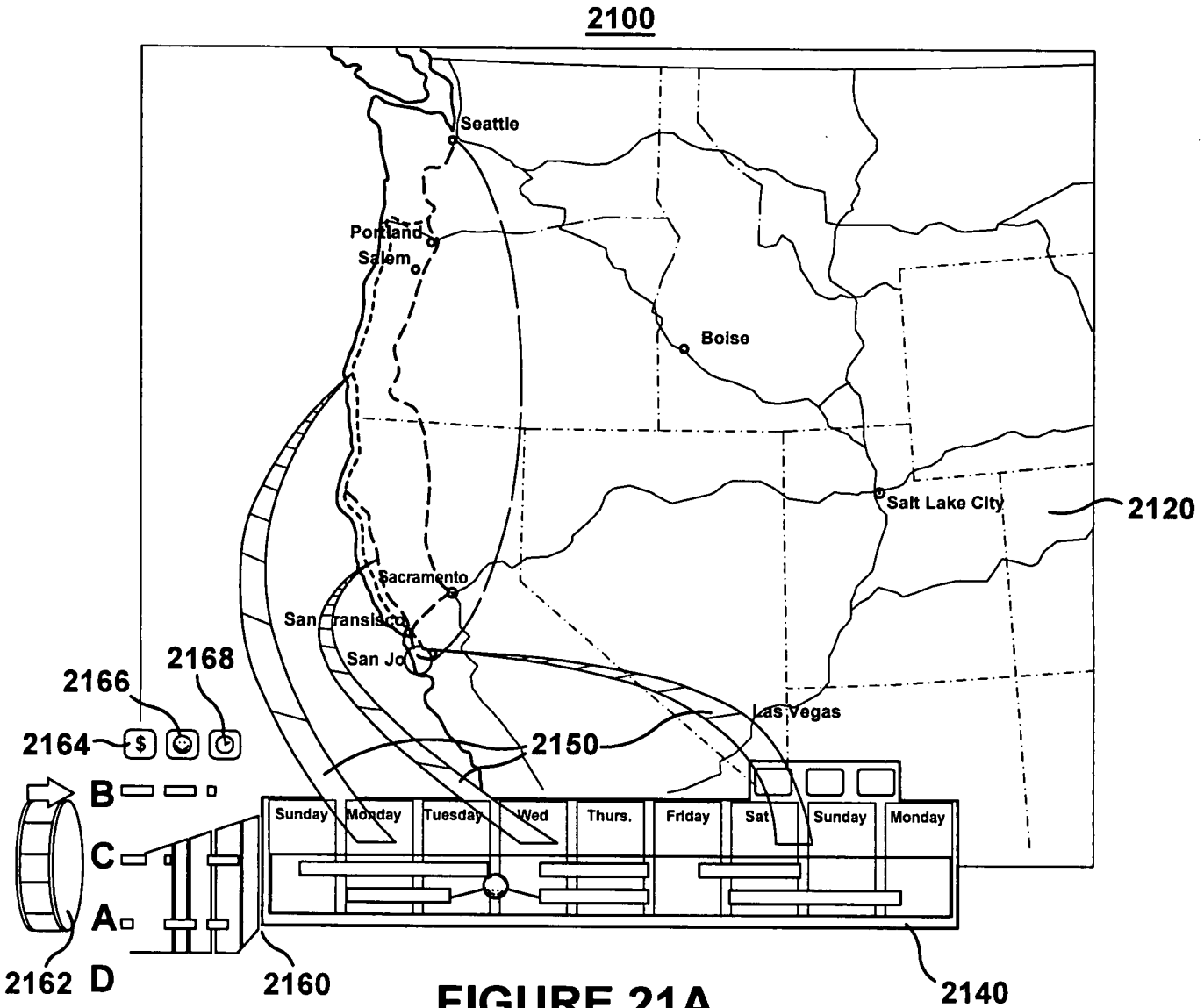

2100
Seattle
Portland
Salem
Boise
Salt Lake City
2120
Sacramento
San Francisco
San Jo
Las Vegas
2150
2166
2168
2164
$
B
C
A
D
2162
2160
Sunday
Monday
Tuesday
Wed
Thurs.
Friday
Sat
Sunday
Monday
2140

FIGURE 21A

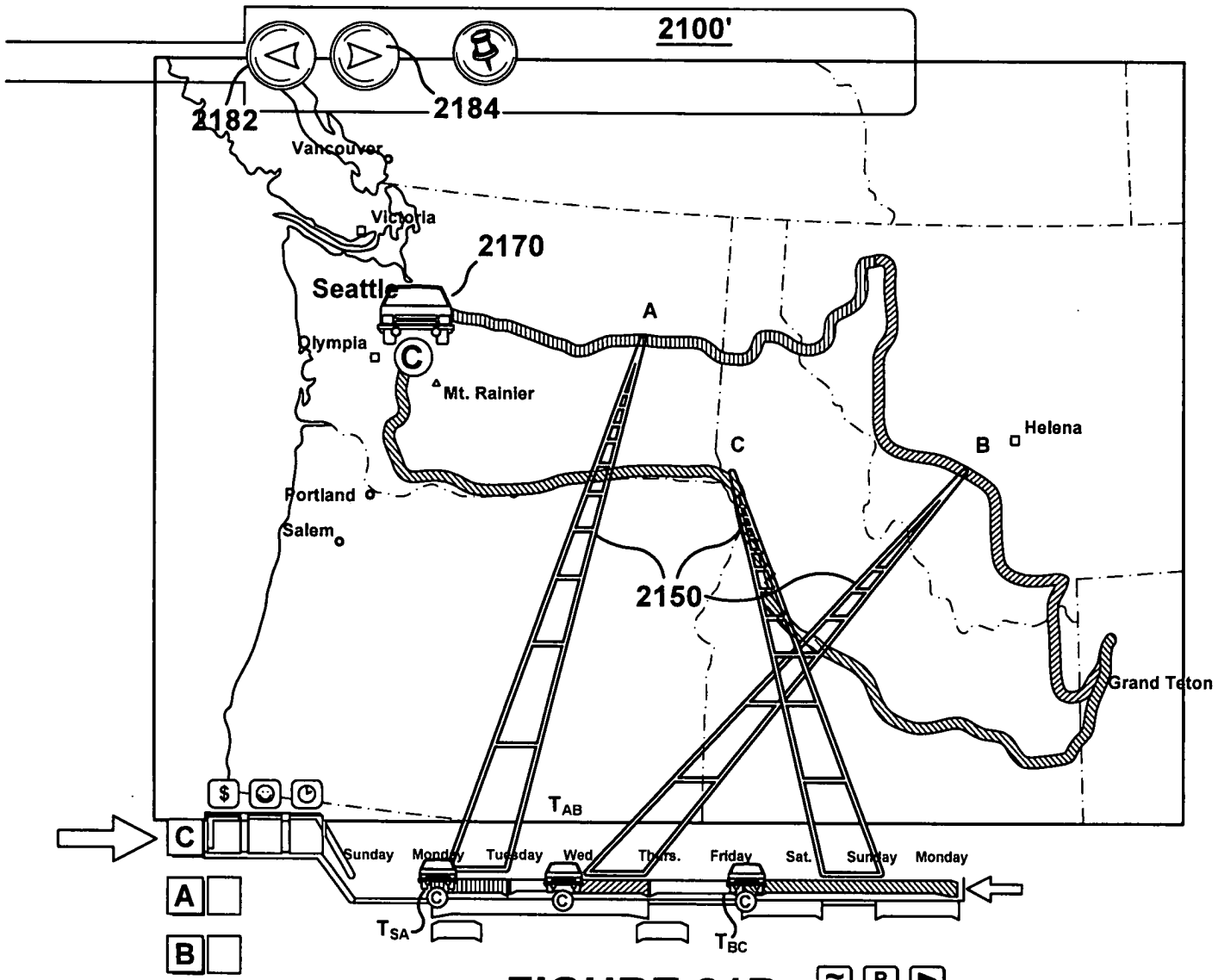

2100'
2182
2184
Vancouver
Victoria
2170
Seattle
A
Olympia
C
Mt. Rainier
Helena
B
C
Portland
Salem
2150
Grand Teton
$
C
A
B
T_{AB}
Sunday
Monday
Tuesday
Wed.
Thurs.
Friday
Sat.
Sunday
Monday
T_{SA}
T_{BC}

FIGURE 21B

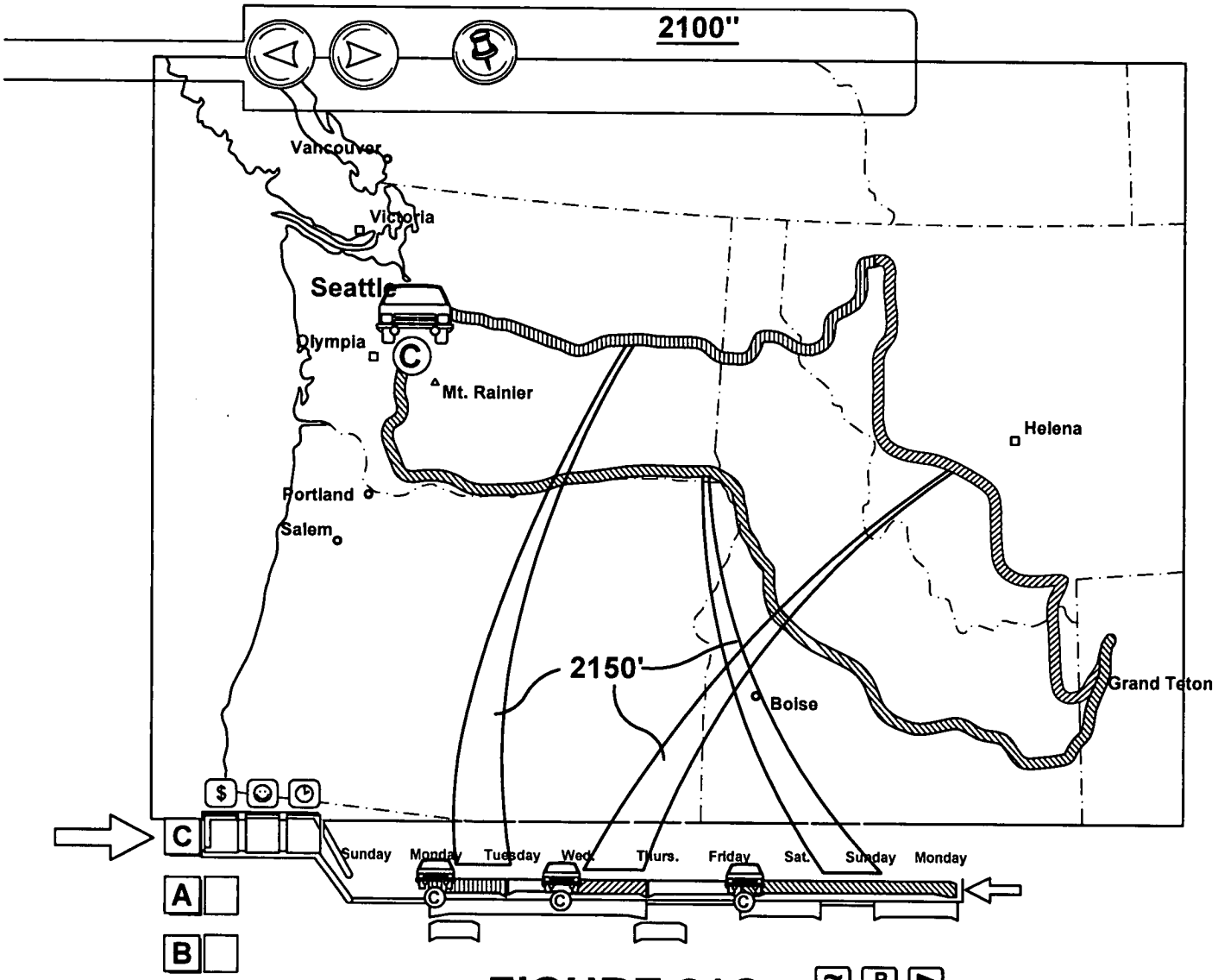
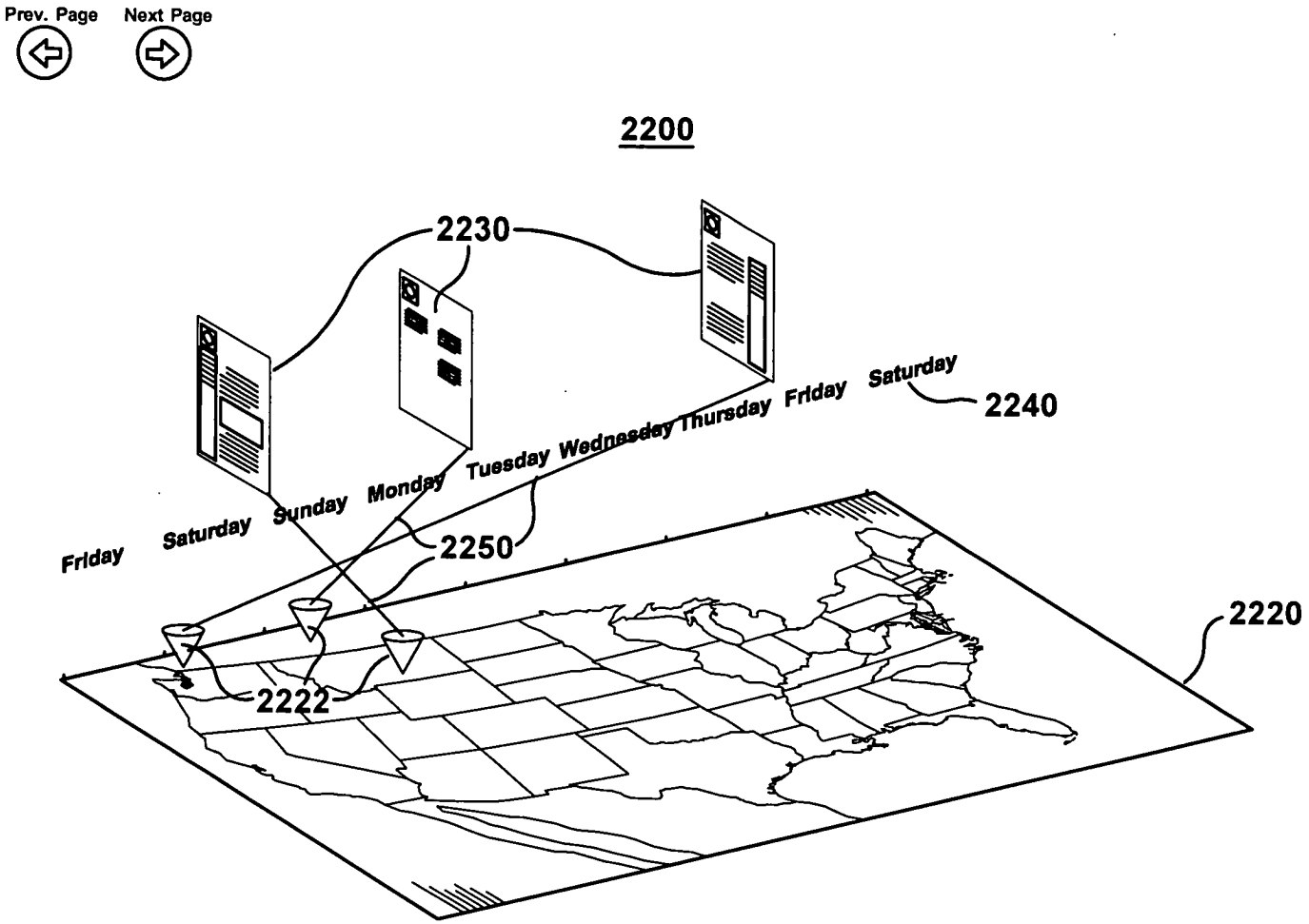

2100"
Vancouver
Victoria
Seattle
Olympia
Mt. Rainier
Helena
Portland
Salem
2150'
Boise
Grand Teton
C
A
B
$
Sunday
Monday
Tuesday
Wed.
Thurs.
Friday
Sat.
Sunday
Monday

FIGURE 21C

FIGURE 22


Prev. Page
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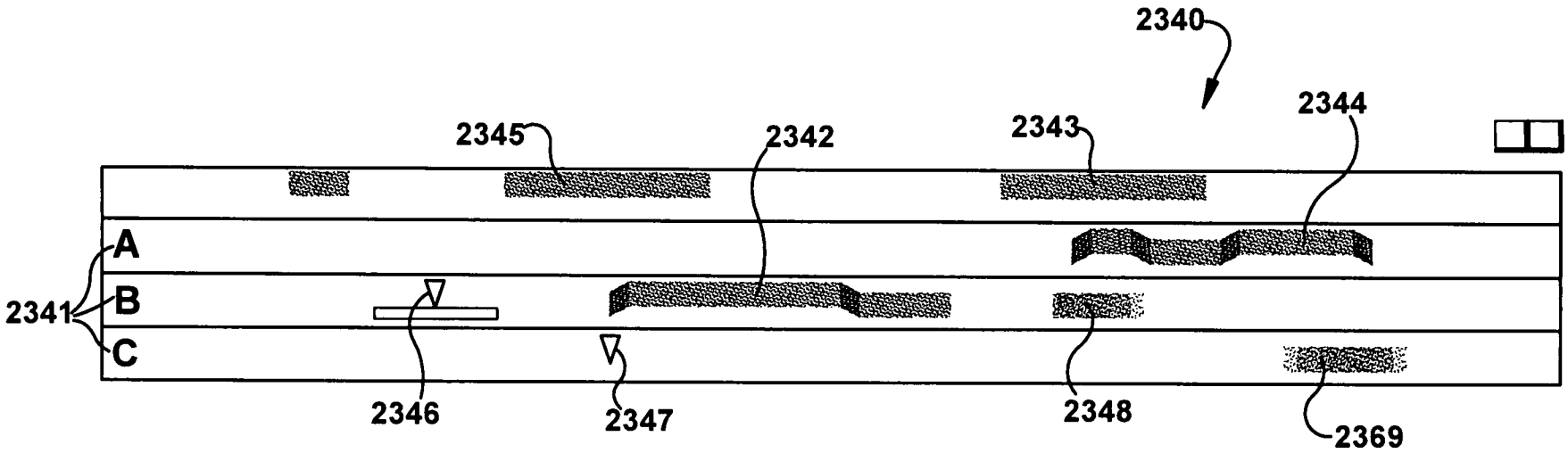
2200
2230
Friday
Saturday
Sunday
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
2240
2250
2220
2222



2300

FIGURE 23A

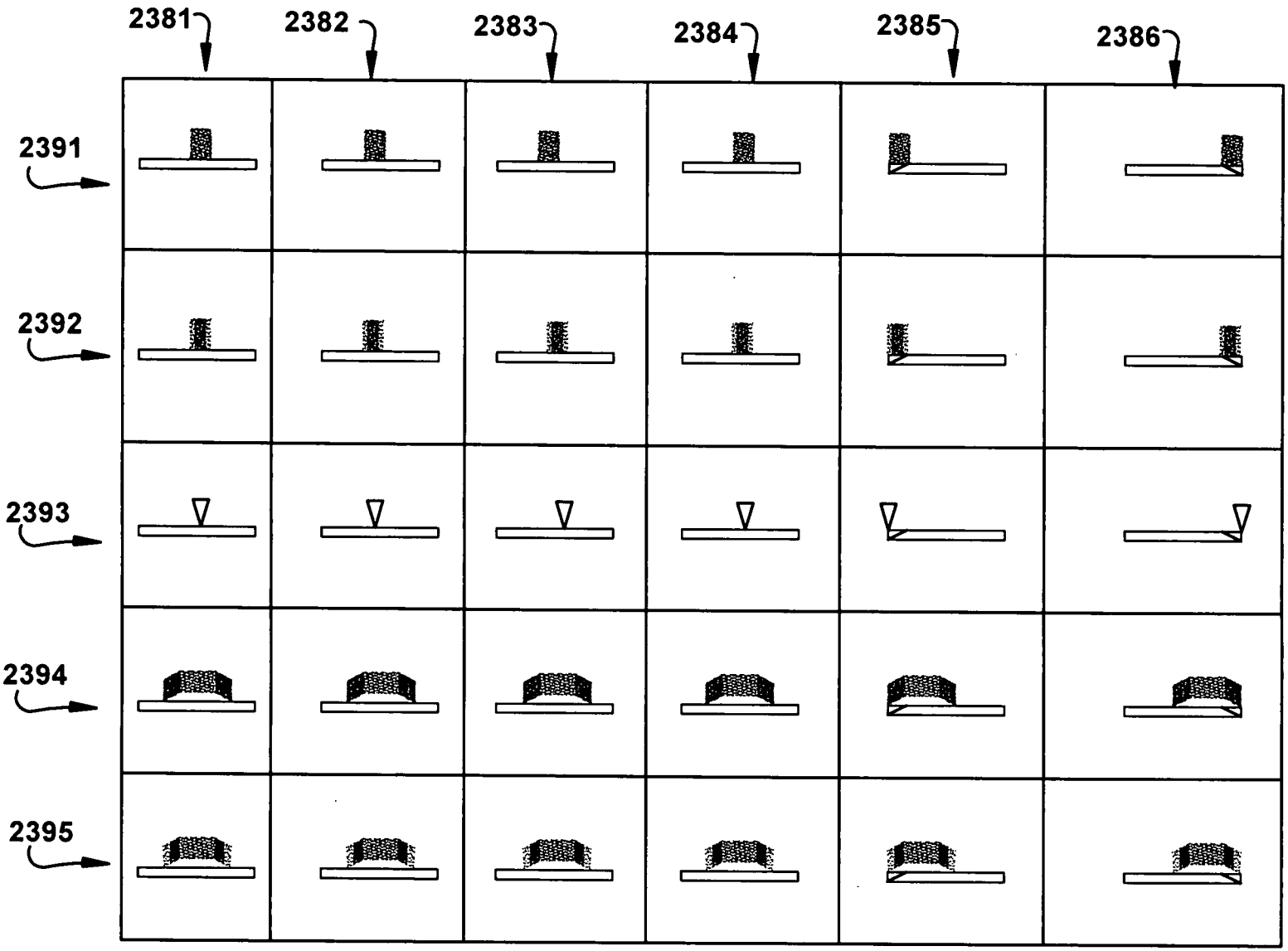


FIGURE 23B

FIGURE 24

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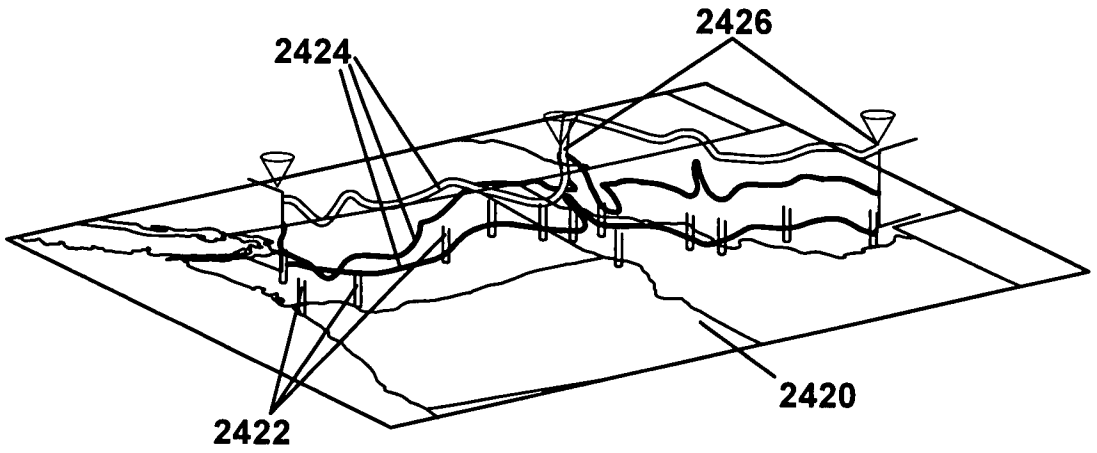

2400

FIGURE 25

Prev. Page Next Page

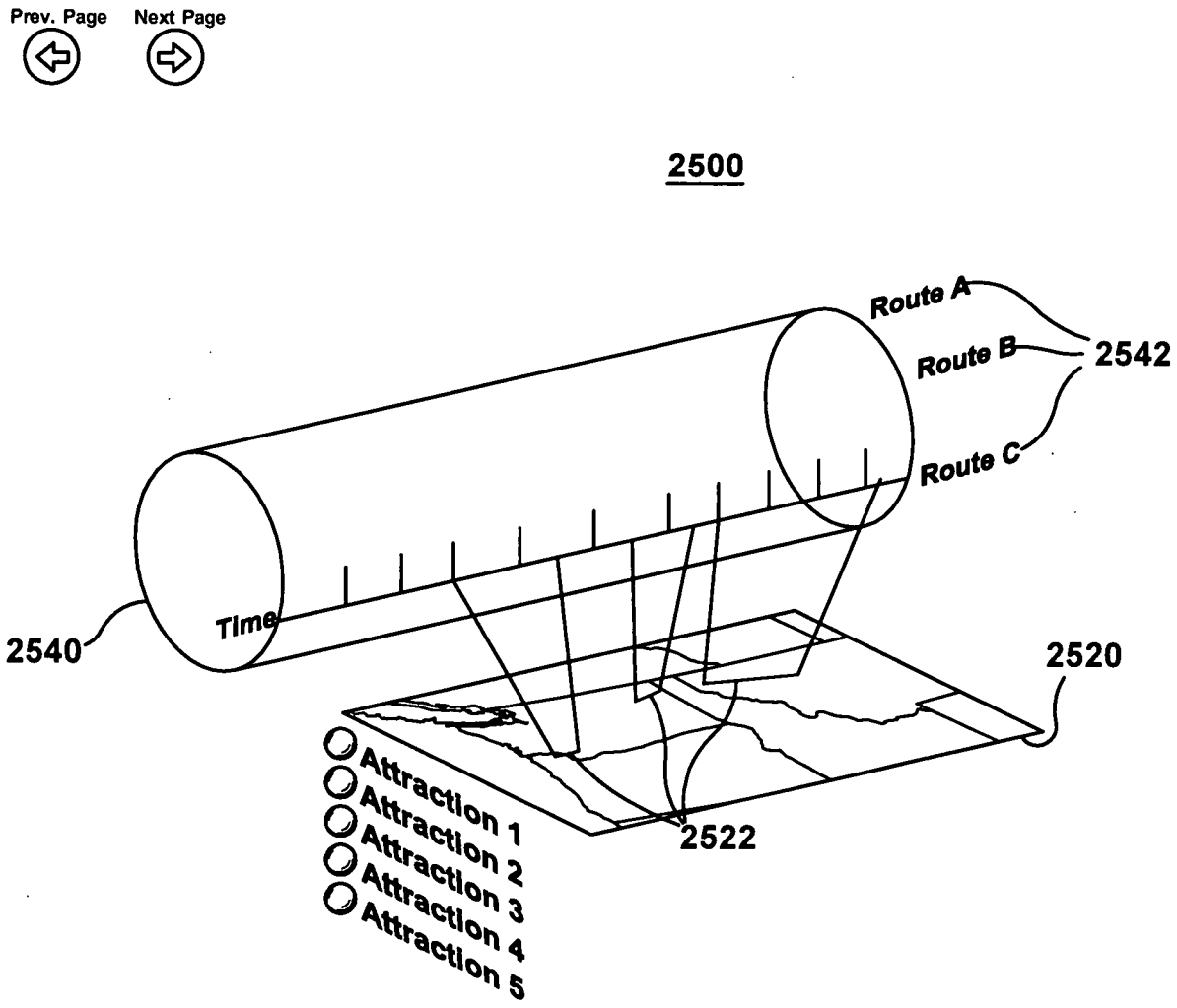

FIGURE 26

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2600

activity 1
activity 2
activity 3
activity 4

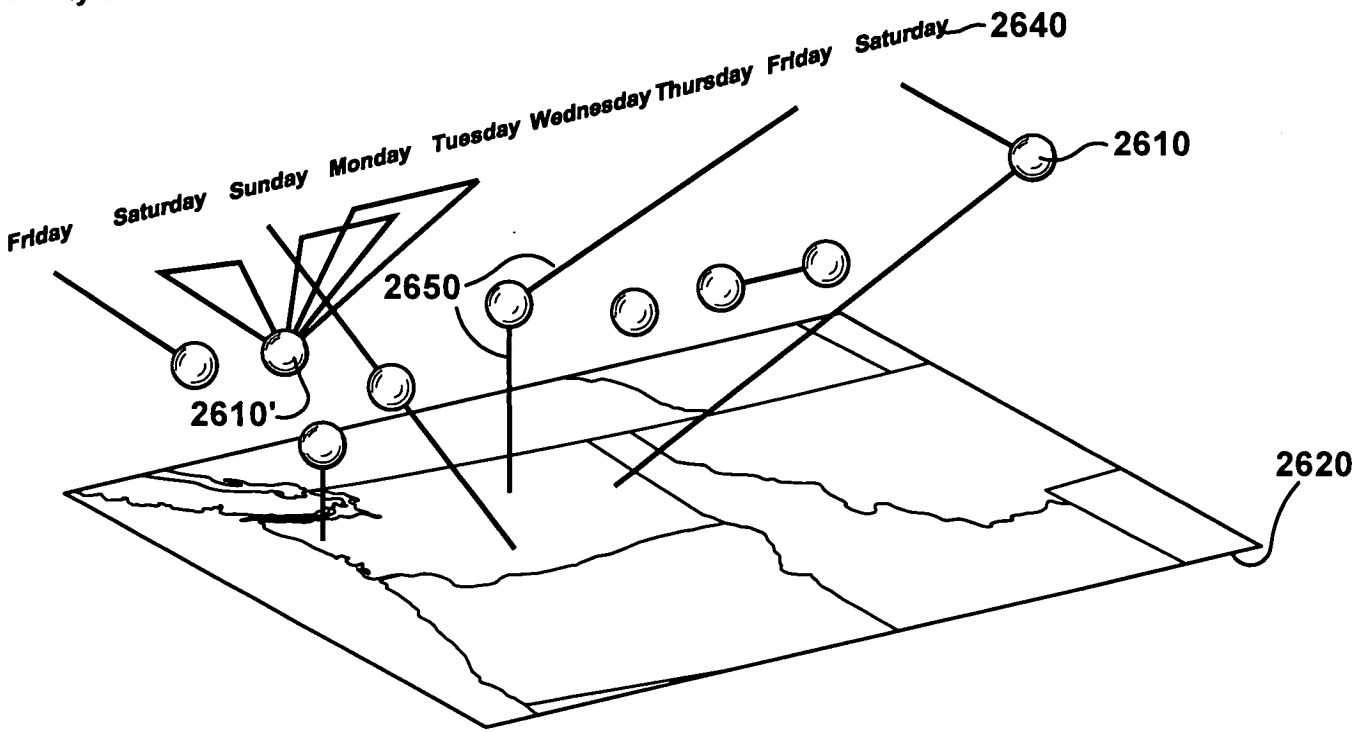


FIGURE 27

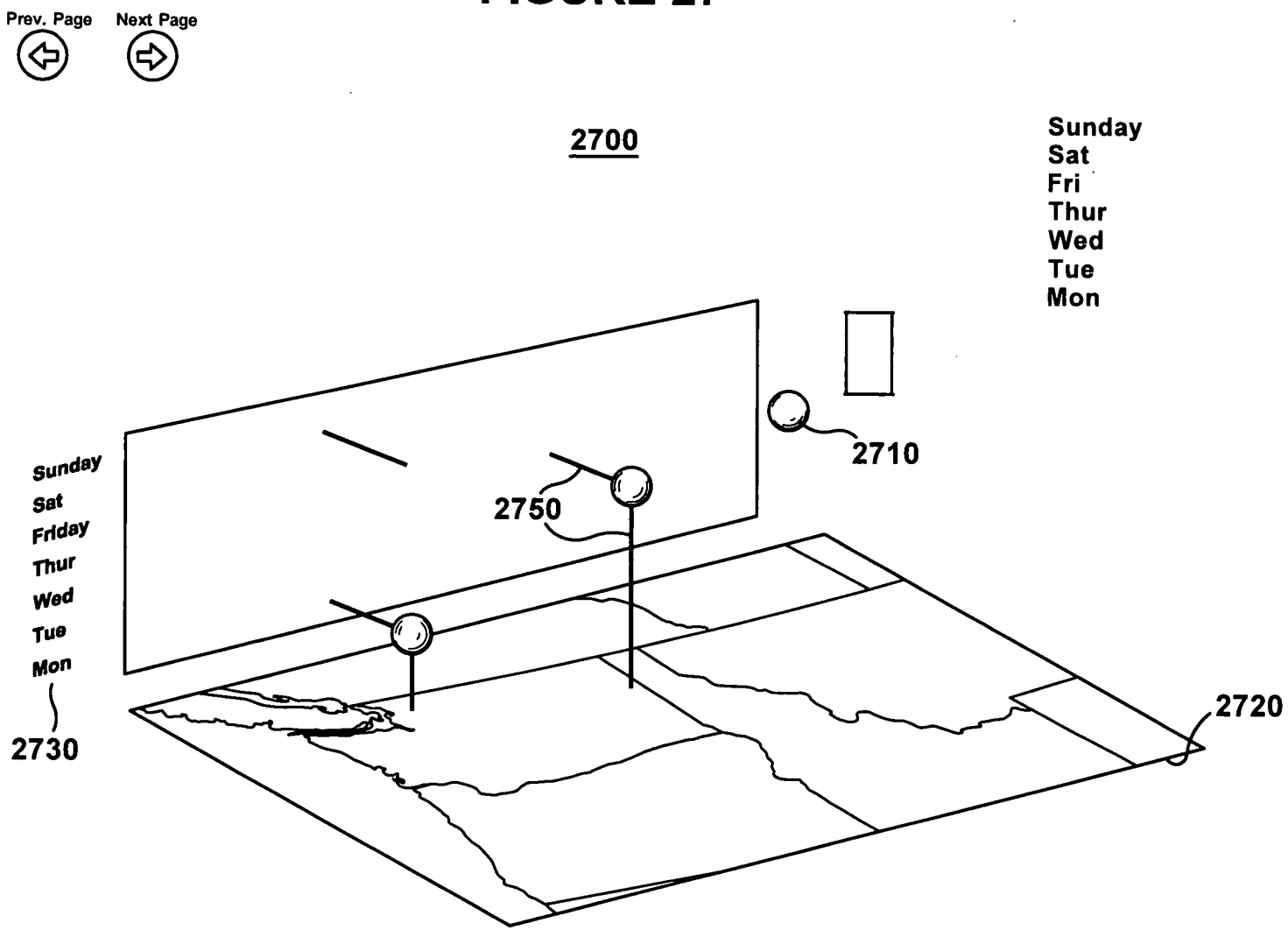
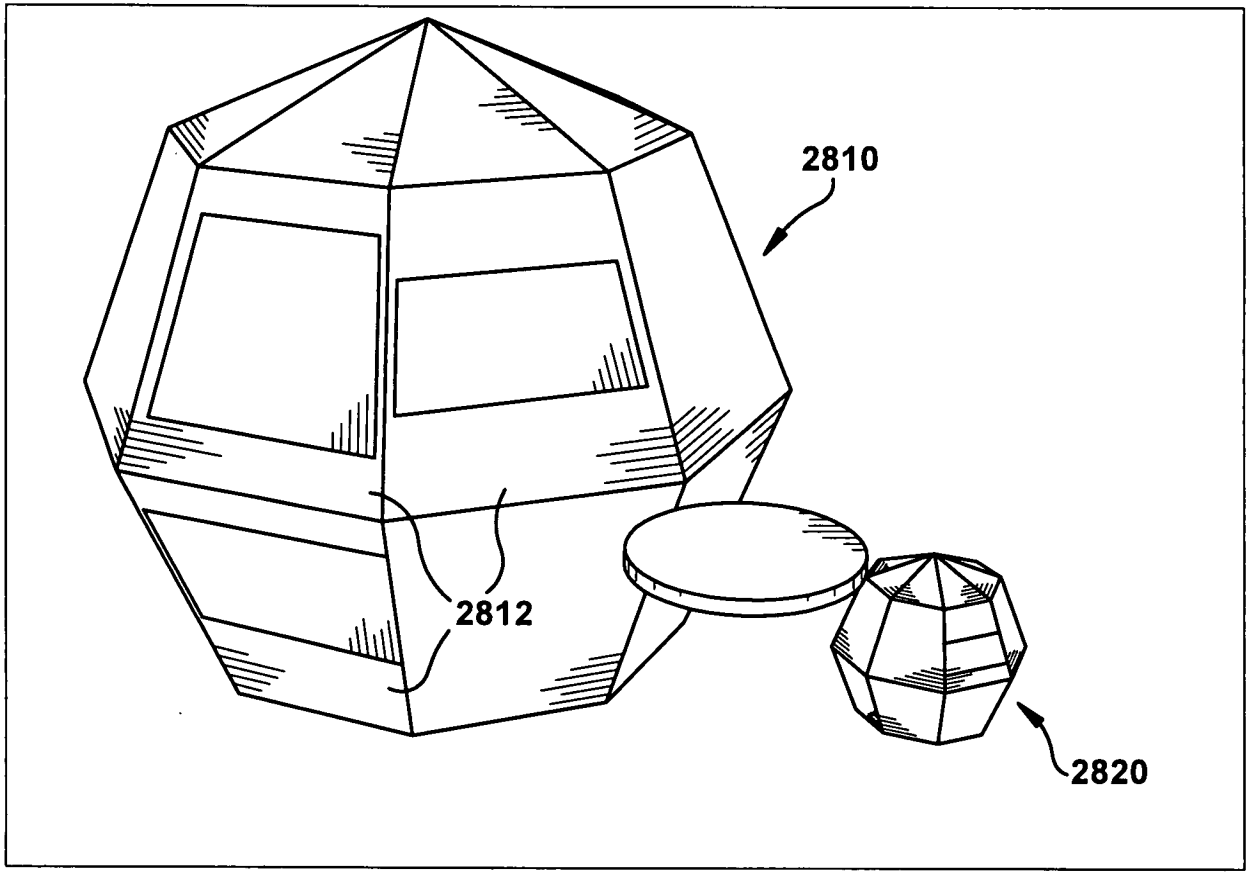

Prev. Page
Next Page
2700
Sunday
Sat
Fri
Thur
Wed
Tue
Mon
2710
2750
Sunday
Sat
Friday
Thur
Wed
Tue
Mon
2730
2720

FIGURE 28



2800

FIGURE 29

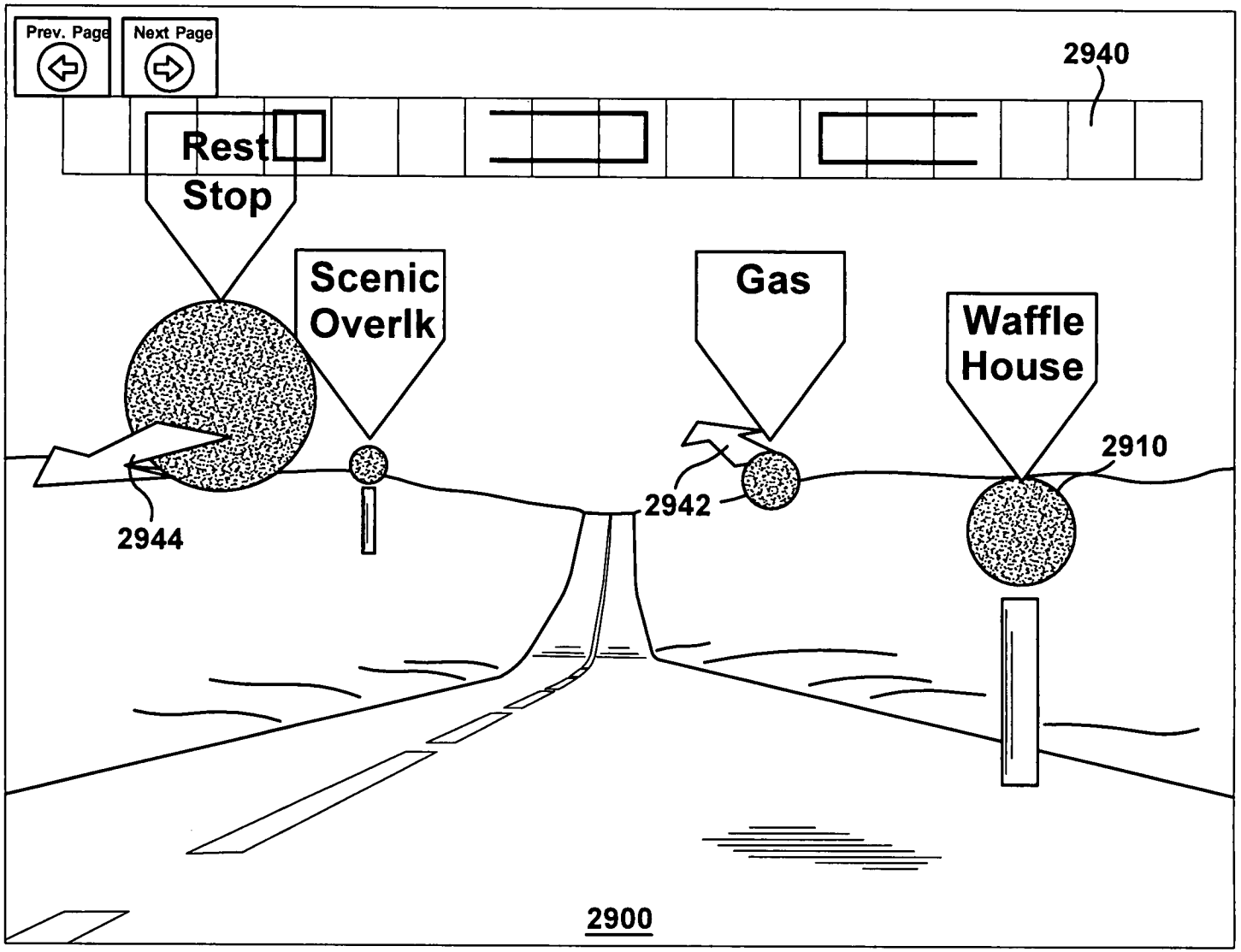

Prev. Page
Next Page
2940
Rest Stop
Scenic Overlk
Gas
Waffle House
2910
2942
2944
2900

FIGURE 30

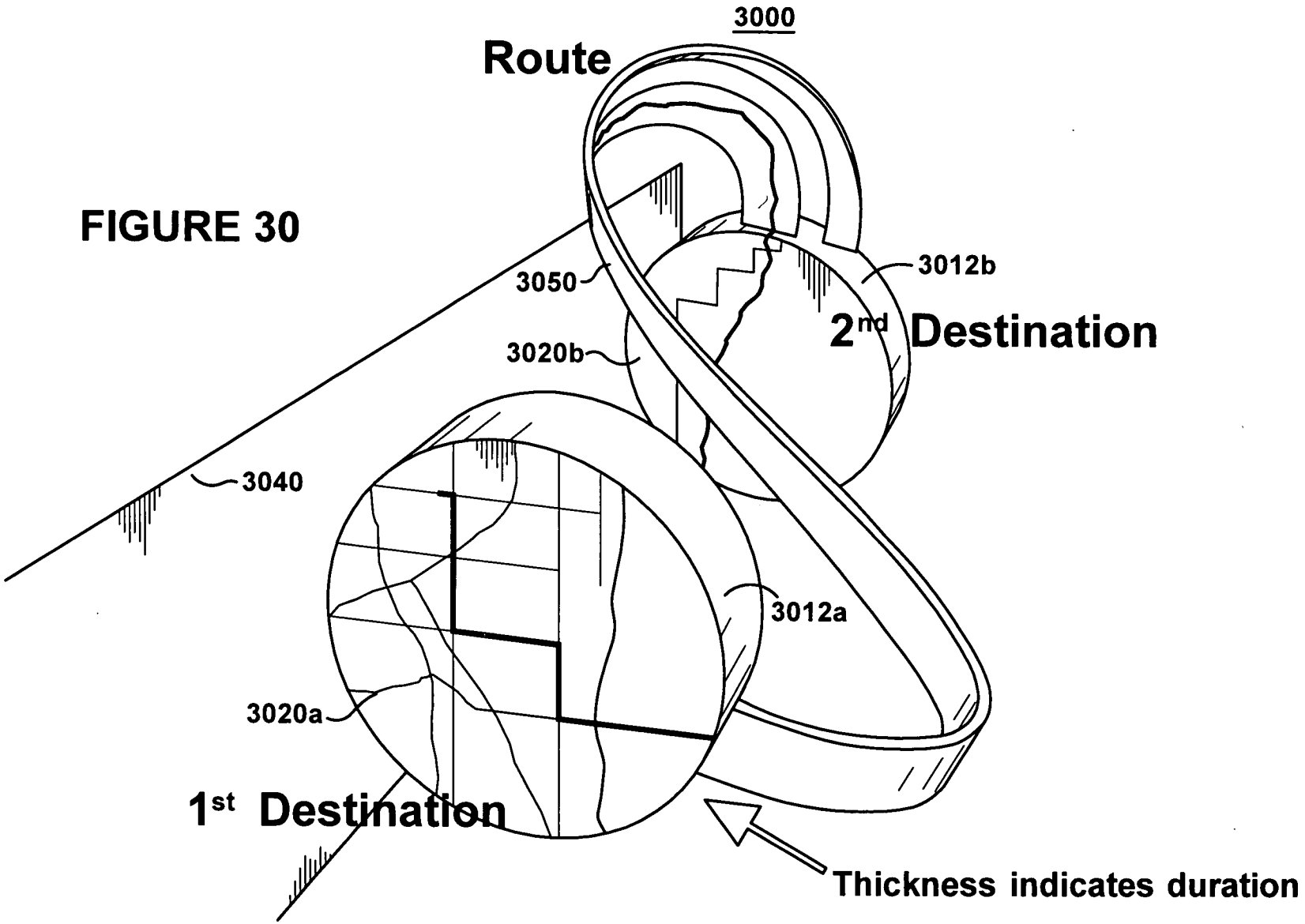

3000
Route
3012b
3050
2nd Destination
3020b
3040
3012a
3020a
1st Destination
Thickness indicates duration

FIGURE 31A

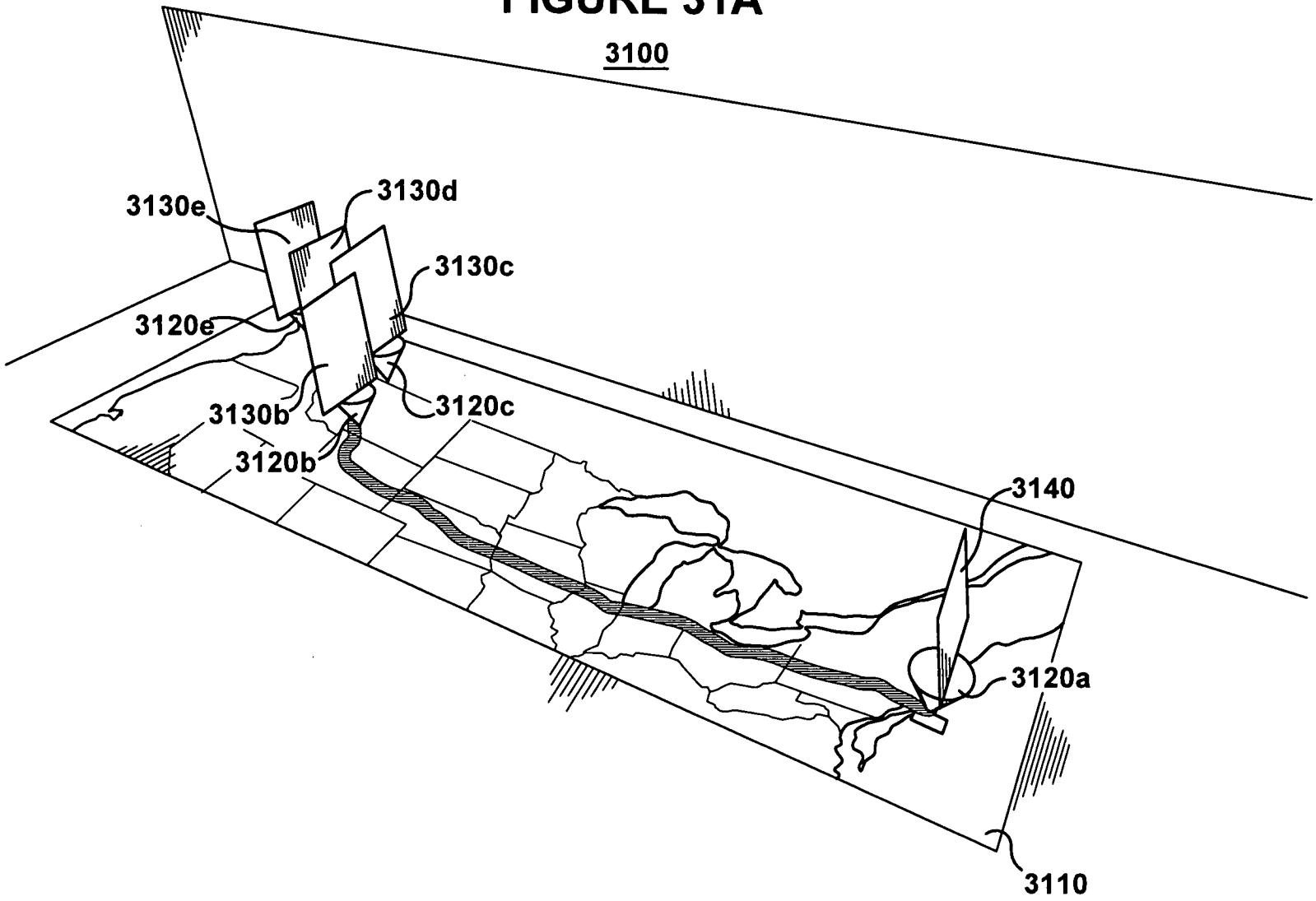

3100
3130e
3130d
3130c
3120e
3130b
3120c
3120b
3140
3120a
3110

FIGURE 31B

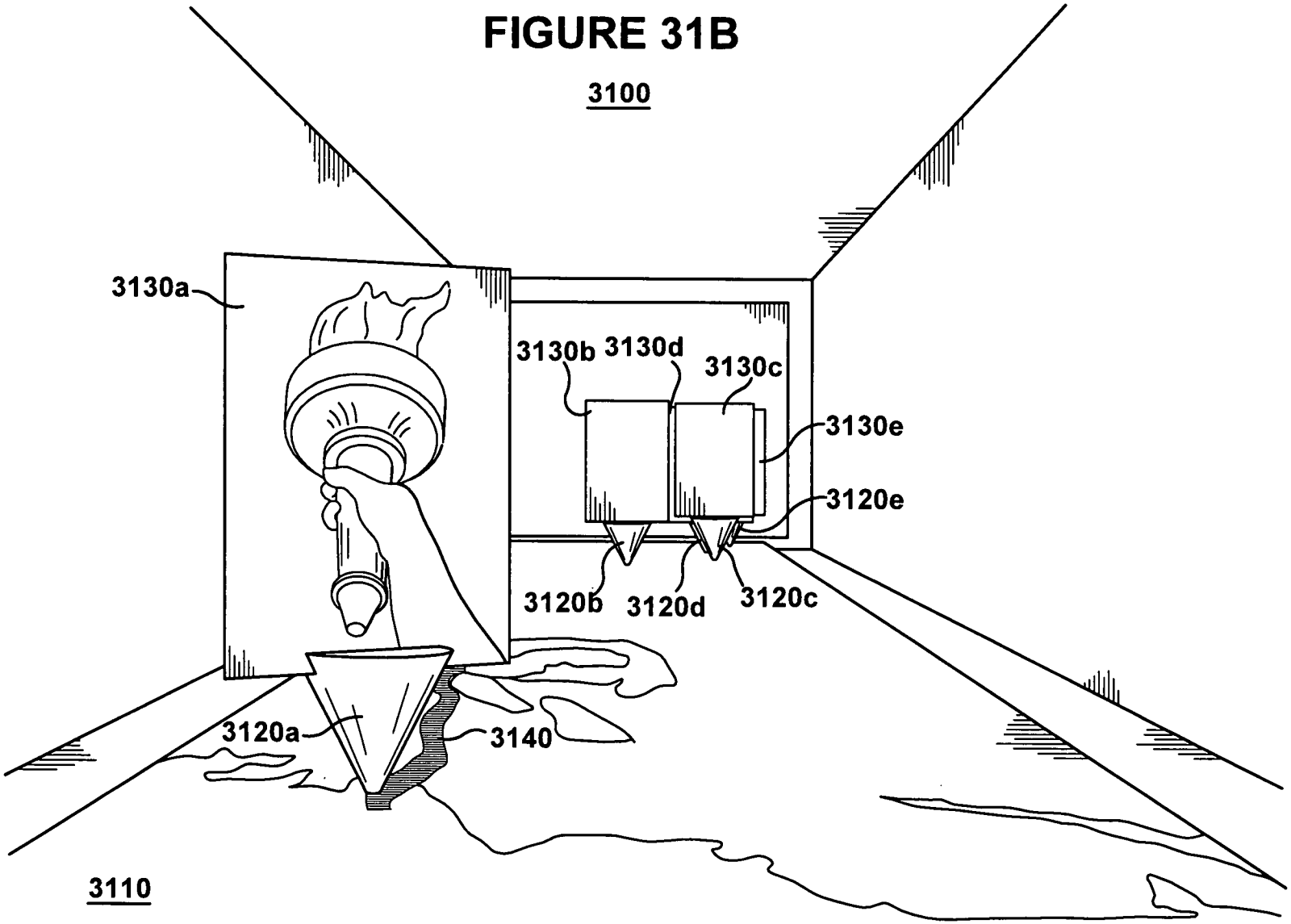
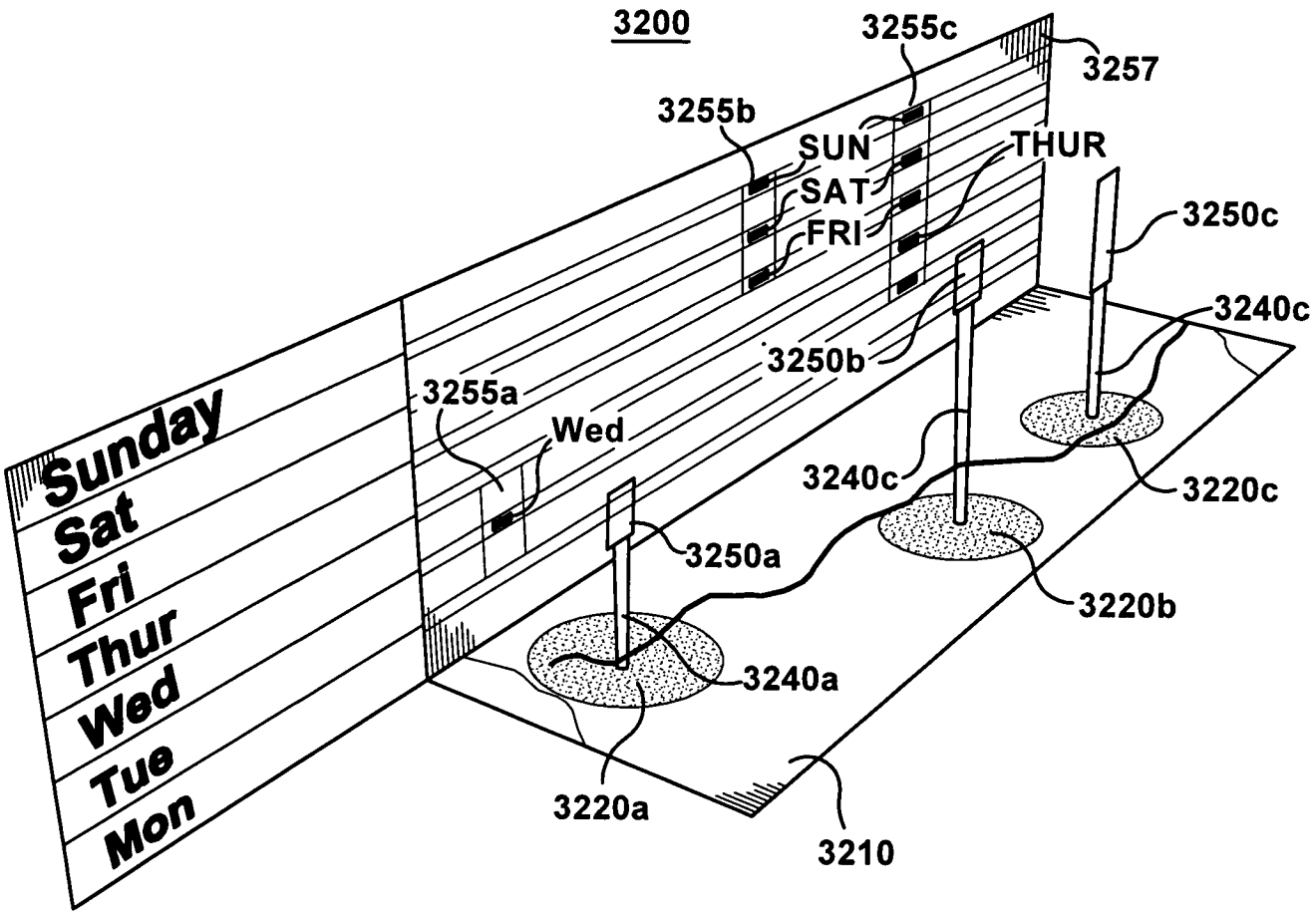

3100
3130a
3130b
3130d
3130c
3130e
3120e
3120b
3120d
3120c
3120a
3140
3110

FIGURE 32


3200
3255c
3257
3255b
SUN
THUR
SAT
FRI
3250c
3240c
3250b
3255a
Wed
Sunday
Sat
Fri
Thur
Wed
Tue
Mon
3240c
3220c
3250a
3220b
3240a
3220a
3210

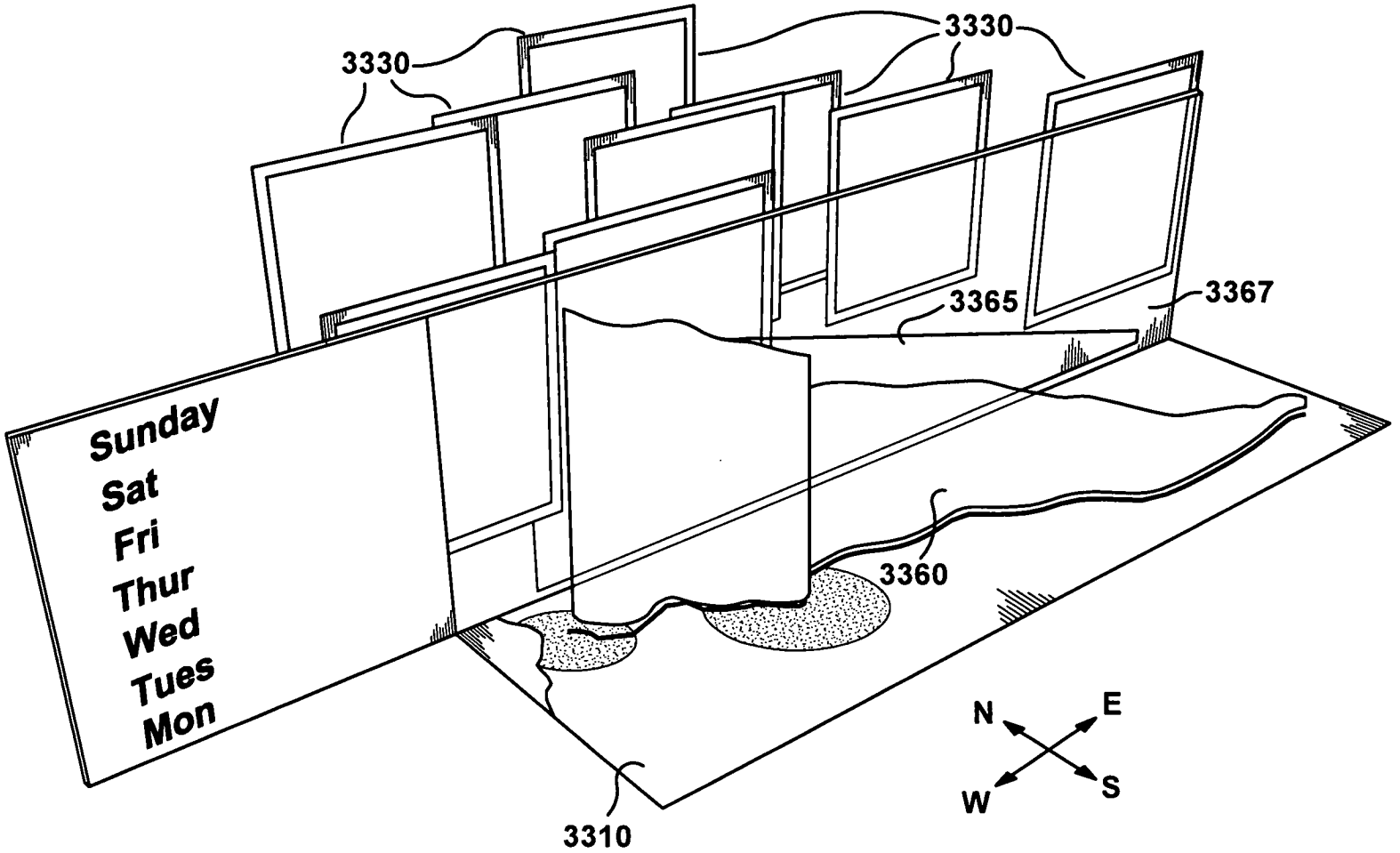
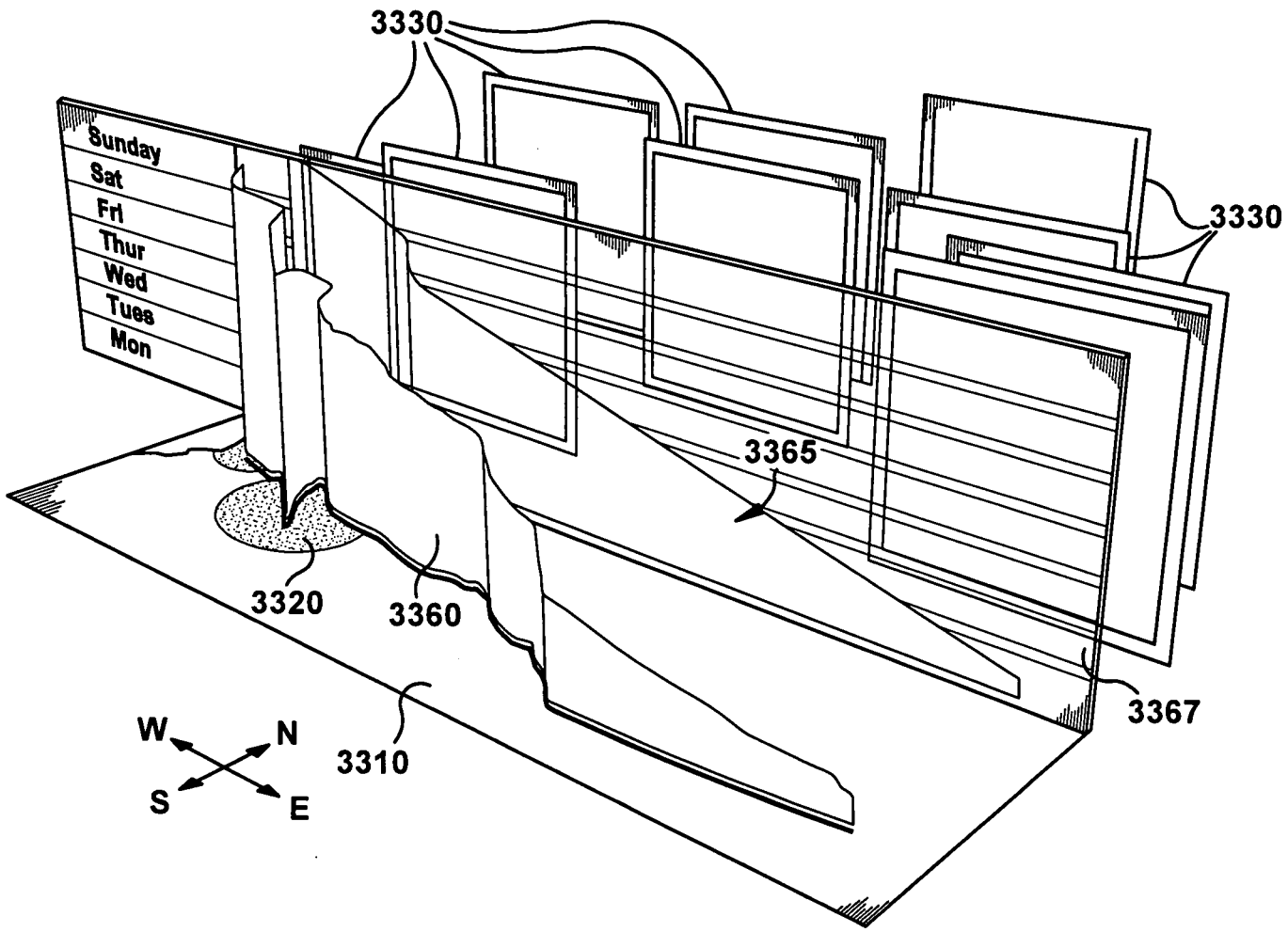

3330
3330
3365
3367
Sunday
Sat
Fri
Thur
Wed
Tues
Mon
3360
N
E
W
S
3310
3300

FIGURE 33A

FIGURE 33B

3300